

# Anti-FGFR2 hIgG1 Referece Antibody (Bemabio)

## Product Information

|                        |                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>    | Anti-FGFR2 hIgG1 Referece Antibody (Bemabio)                                                                                                                                            |
| <b>Storage temp.</b>   | Store at 2-8°C short term (1-2 weeks).Store at $\leq -20^{\circ}\text{C}$ long term. Avoid repeated freeze-thaw.                                                                        |
| <b>Catalog# / Size</b> | <b>GM-88057MAB-1mg / 1 mg</b><br><b>GM-88057MAB-5mg / 5 mg</b><br><b>GM-88057MAB-25mg / 5 mg*5 vials</b><br><b>GM-88057MAB-50mg / 50 mg</b><br><b>GM-88057MAB-100mg / 50 mg*2 vials</b> |

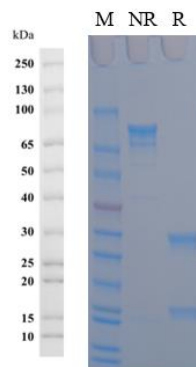
## Antibody Information

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expression System  | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Aggregation        | < 5% as determined by SEC-HPLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity             | > 95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species Reactivity | Human; Mouse; Cynomolgus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clone              | bemarituzumab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Source/Isotype     | Human IgG1(REEM), kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Application        | Flow Cytometry; Bioactivity-ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity        | Detects FGFR2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene               | FGFR2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Other Names        | BBDS, BEK, BFR-1, CD332, CEK3, CFD1, ECT1, JWS, K-SAM, KGFR, TK14, TK25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene ID            | 2263 (Human); 14183 (Mouse); 102143086 (Cynomolgus)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Background         | FGFR2(Fibroblast Growth Factor Receptor 2) is a member of the FGFR family in the 10q26 region of the human genome. It is homologous to FGFR134 and functions as a Receptor tyrosine kinase. Its structure includes an extracellular Ig-like variant domain (common IIIB/IIIC splice variants), a transmembrane region, and an intracellular kinase domain responsible for receptor autophosphorylation and signaling. The core function of FGFR2 is to regulate cell proliferation, differentiation, migration, survival, tissue development and homeostasis maintenance, mainly through MAPK/ERK, PI3K/AKT, PLC $\gamma$ and other pathways. It plays a key role in multiple phylogenies such as neural development, bone formation, skin and vascular development. Antibodies to FGFR2 have diverse applications in research and therapy, both for detection and localization in basic research and for targeted intervention in clinical therapy. |
| Formulation        | Phosphate-buffered solution, pH 7.2-7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Endotoxin          | < 1 EU/mg, determined by LAL gel clotting assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

Version:3.2

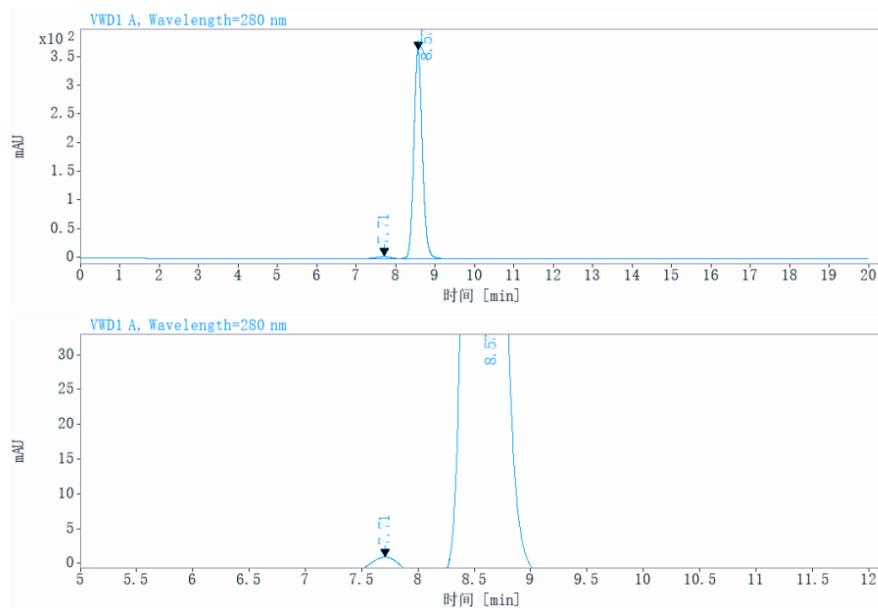
## Data Examples

### SDS-PAGE



On SDS-PAGE under reducing (R)/non-reducing(N-R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

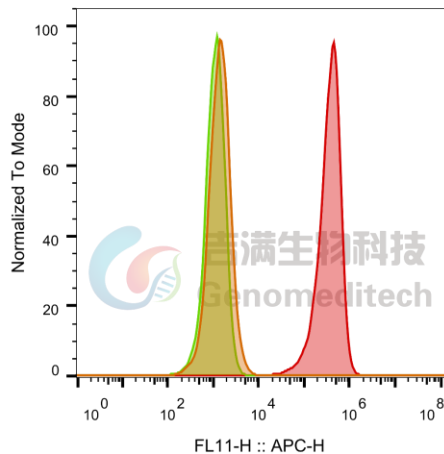
### SEC-HPLC



The purity of this product is more than 95% verified by SEC-HPLC

Flow cytometry

H\_FGFR2b HEK-293 Cell Line (Catalog # GM-C41509) was stained with Anti-FGFR2 hlgG1 Referece Antibody (Bemabio) (Catalog # GM-88057MAB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

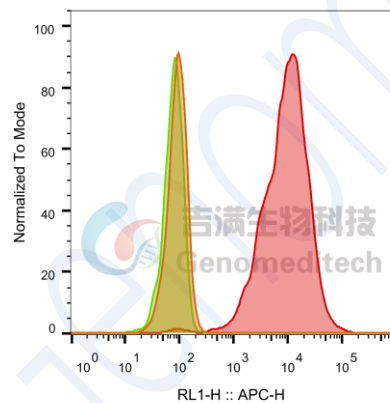


| SampleID                               | Geometric Mean : FL11-H |
|----------------------------------------|-------------------------|
| HEK-293 anti-FGFR2+APC-2nd Ab          | 1376                    |
| HEK-293 H_FGFR2b H_IgG+APC-2nd Ab      | 1105                    |
| HEK-293 H_FGFR2b anti-FGFR2+APC-2nd Ab | 345168                  |

Fig. FACS

Flow cytometry

H\_FGFR2b CHO-K1 Cell Line (Catalog # GM-C41508) was stained with Anti-FGFR2 hlgG1 Referece Antibody (Bemabio) (Catalog # GM-88057MAB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



| SampleID                              | Geometric Mean : RL1-H |
|---------------------------------------|------------------------|
| CHO-K1 anti-FGFR2+APC-2nd Ab          | 90.9                   |
| CHO-K1 H_FGFR2b H_IgG+APC-2nd Ab      | 79.5                   |
| CHO-K1 H_FGFR2b anti-FGFR2+APC-2nd Ab | 8518                   |

Fig. FACS

## Bioactivity-ELISA

Human FGFR2(IIIb) D2-D3 Protein; His Tag (Catalog # GM-88186RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-FGFR2 hIgG1 Referece Antibody (Bemabio) (Catalog # GM-88057MAB) were added.

### Bioactivity-ELISA

0.2 µg Human FGFR2(IIIb) D2-D3 Protein; His Tag of per well

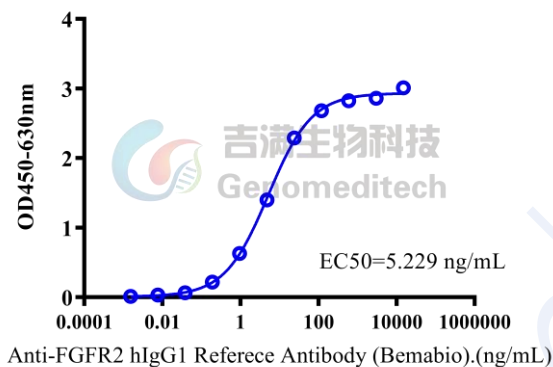


Fig. ELISA

## Bioactivity-ELISA

Cynomolgus FGFR2(IIIb) D1-D3 Protein; His Tag (Catalog # GM-88190RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-FGFR2 hIgG1 Referece Antibody (Bemabio) (Catalog # GM-88057MAB) were added.

### Bioactivity-ELISA

0.2 µg Cynomolgus FGFR2(IIIb) D1-D3 Protein; His Tag of per well

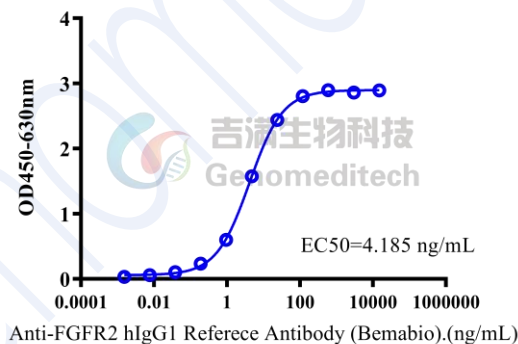


Fig. ELISA

## Bioactivity-ELISA

Mouse FGFR2(IIIb) D2-D3 Protein; His Tag (Catalog # GM-88191RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-FGFR2 hIgG1 Reference Antibody (Bemabio) (Catalog # GM-88057MAB) were added.

### Bioactivity-ELISA

0.2 µg Mouse FGFR2(IIIb) D2-D3 Protein; His Tag of per well

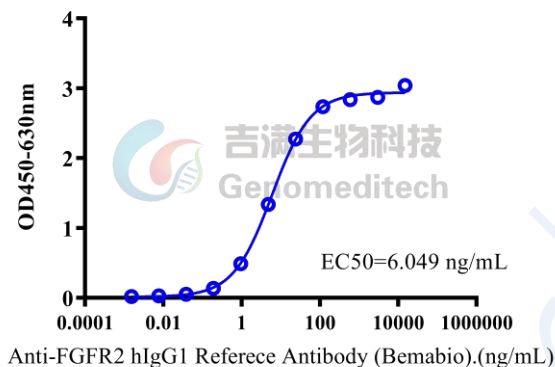


Fig. ELISA

## Bioactivity-ELISA

Human FGFR2(IIIb) D1-D3 Protein; hFc Tag (Catalog # GM-88187RP) was immobilized at 10 µg/ml (100 µL/well). Increasing concentrations of Anti-FGFR2 hIgG1 Reference Antibody (Bemabio) (Catalog # GM-88057MAB) were added.

### Bioactivity-ELISA

1 µg Human FGFR2(IIIb) D1-D3 Protein; hFc Tag of per well

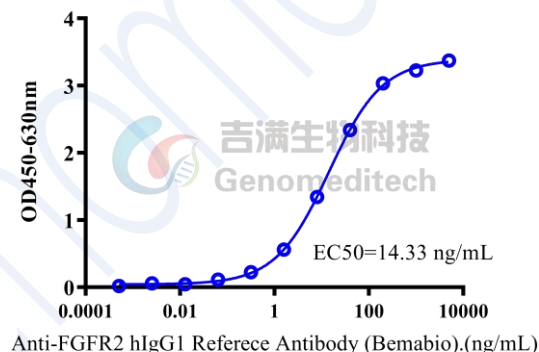


Fig. ELISA