Recombinant Human HER3/ErbB3 Protein (His Tag)

Catalog Number: PKSH031766

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

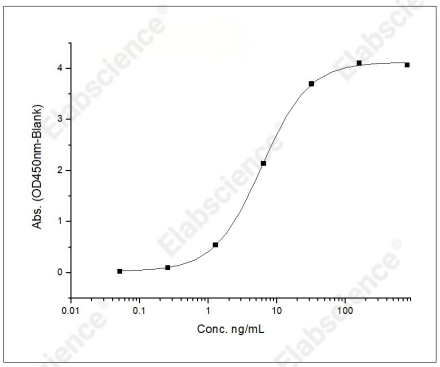
Description

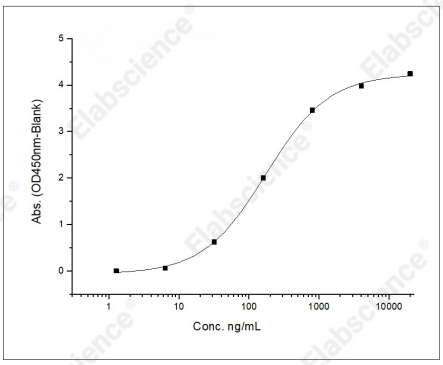
Species	Human
Source	HEK293 Cells-derived Human HER3/ErbB3 protein Met 1-Thr 643, with an C-terminal His
Calculated MW	70.2 kDa
Observed MW	100-110 kDa
Accession	NP_001973.2
Bio-activity	Immobilized human ErbB3 at 2 μg/mL (100 μl/well) can bind human NRG1 (isoform Beta1), The EC_{50} of human NRG1 (isoform Beta1) is 0.43 μg/mL.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4.
Reconstitution	Please refer to the printed manual for detailed information.

Data





Immobilized Anti-Human Her3 Antibody, Human IgG1 at 2 μg/mL (100 μL/well) can bind Recombinant Human HER3 / ErbB3 Protein (ECD, His Tag) (Cat: PKSH031766), the EC_{50} is 3-12 ng/mL (Rountinely tested).

Background

ErbB3, also known as Her3(human epidermal growth factor receptor3), is a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound glycoprotein has a neuregulin binding domain but has not an active kinase domain., and therefore can not mediate the intracellular signal transduction through protein phosphorylation. However, its heterodimer with ErbB2 or other EGFR members responsible for tyrosine phosphorylation forms a receptor complex with high affinity, and initiates the related pathway which lead to cell proliferation or differentiation. ErbB3 has been shown to implicated in numerous cancers, including prostate, bladder, and breast tumors. This protein has different isoforms derived from alternative splicing variants, and among which, the secreted isoform lacking the intermembrane region modulates the activity of membrane-bound form.

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