Datasheet for ABIN7197658

ERBB3 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	ERBB3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ERBB3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human HER3/ErbB3 Protein (His Tag)(Active)
Sequence:	Met 1-Thr 643
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Thr 643) of human ErbB3 (NP_001973.2) precursor was expressed, with a C-terminal polyhistidine tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human ErbB3 at 2 µg/mL (100 µl/well) can bind human NRG1 (isoform Beta1), The EC50 of human NRG1 (isoform Beta1) is 0.43 µg/mL.

Target Details

Target:	ERBB3

Target Details

Alternative Name:	HER3/ErbB3 (ERBB3 Products)
Background:	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.Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy Synonym: c-erbB-3;c-erbB3;EEBB3;ErbB-3;erbB3-S;HER3;LCCS2;MDA-BF-1;p180-ErbB3;p45-sErbB3;p85-sErbB3
Molecular Weight:	70.2 kDa
NCBI Accession:	NP_001973
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.