

Datasheet for ABIN2444117
ERBB3 Protein (AA 20-643) (His tag,Biotin)



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2 Images

Overview

Quantity:	200 µg
Target:	ERBB3
Protein Characteristics:	AA 20-643
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERBB3 protein is labelled with His tag,Biotin.

Product Details

Brand:	MABSol®,UltraLys
Sequence:	AA 20-643
Specificity:	The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 71.5 kDa. The protein migrates as 100-110 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Purity:	>95 % as determined by reduced SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	ERBB3
Alternative Name:	ErbB3 (ERBB3 Products)
Background:	<p>ErbB3, also known as Her3 (human epidermal growth factor receptor 3), 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. It therefore can bind the ligand but cannot mediate the intracellular signal transduction through protein phosphorylation. However, it does form heterodimers with ErbB2 or other EGFR members responsible for tyrosine phosphorylation to give a receptor complex and initiate the related pathway, which lead to cell proliferation or differentiation. Overexpression of this protein has been reported 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.</p>
Molecular Weight:	69.5 kDa
NCBI Accession:	NP_001973
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Comment:	<p>A chemically labeled biotinylated protein with ultra sensitivity.</p> <p>The product is produced using a chemical labeling approach. The primary amines in the side chains of lysine residues and the N-terminus of protein are conjugated with biotins.</p> <p>Chemical labeling usually results in multiple biotin attachment on a single protein molecule, which could potentially lead to higher detection sensitivity.</p>
Restrictions:	For Research Use only

Handling

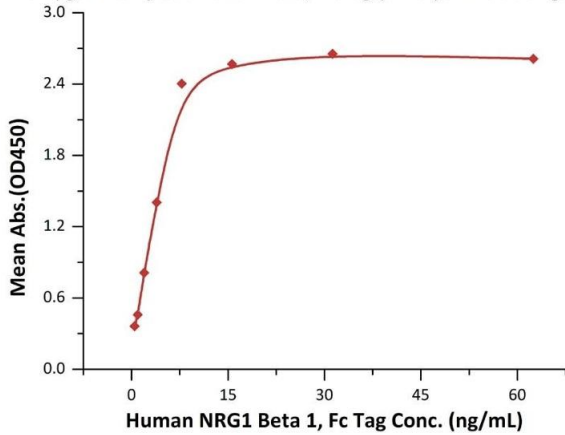
Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Storage Comment: Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.

Images

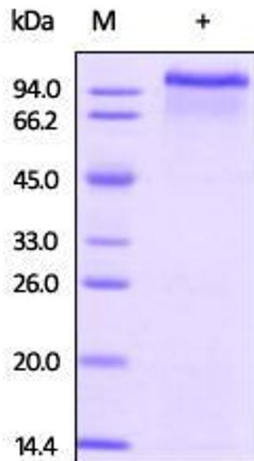
Biotinylated Human ErbB3, His Tag, primary amine labeling ELISA

0.1 µg of Biotinylated Human ErbB3, His Tag, primary amine labeling per well



ELISA

Image 1. Immobilized Biotinylated Human ErbB3, His Tag, primary amine labeling (ABIN2444118,ABIN2444117) at 1 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate, can bind Human NRG1 Beta 1, Fc Tag (ABIN6973185) with a linear range of 0.5-8 ng/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human ErbB3 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.