

Datasheet for ABIN6961140

ERBB3 Protein (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	ERBB3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERBB3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human HER3 protein with C-terminal 6xHis tag
Specificity:	HER3 (Ser20-Thr643) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	affinity purification
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	ERBB3
Alternative Name:	HER3 (ERBB3 Products)
Background:	Synonyms: HER3, ERBB3 Description: This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding

Target Details

domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized.

Molecular Weight:	predicted molecular mass of 69.39 kDa after removal of the signal peptide. The apparent molecular mass of HER3-His is 100-130 kDa due to glycosylation.
Gene ID:	2065
UniProt:	P21860
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

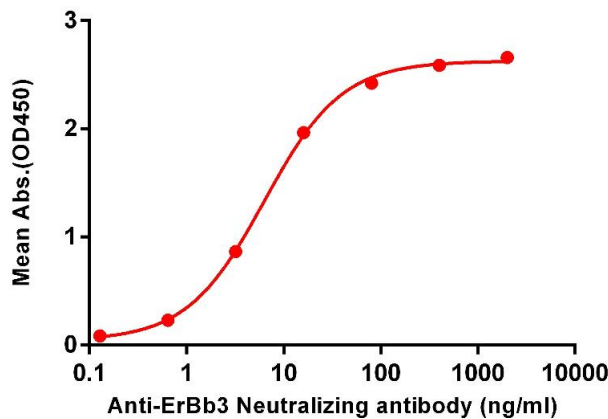
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with deionized water
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Preservative:	Without preservative
Storage:	-20 °C, -80 °C
Expiry Date:	12 months

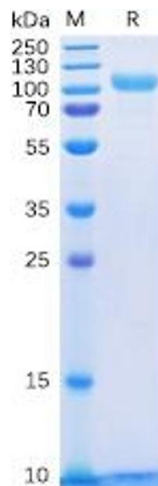
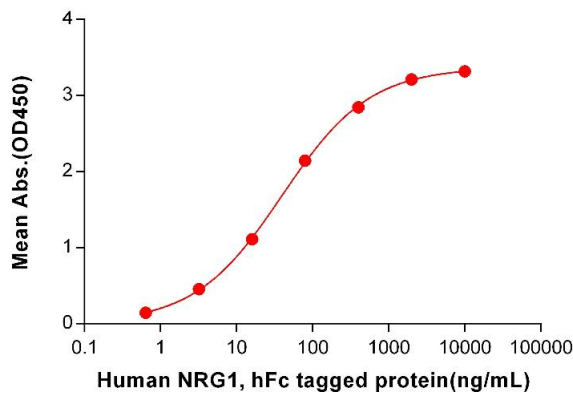
Human Her3, His Tagged protein ELISA

0.1 µg of Human ErBb3, His Tagged protein per well



Human Her3, His tagged protein ELISA

0.5 µg of Human Her3, His tagged protein per well



ELISA

Image 1. ELISA plate pre-coated by 1 µg/mL (100 µL/well) Human Her3, His tagged protein (ABIN6961140) can bind Anti-ErBb3 Neutralizing antibody in a linear range of 3.2-16 ng/mL.

ELISA

Image 2. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human HER3, His tagged protein (ABIN6961140) can bind Human NRG1, hFc tagged protein(ABIN6964402) in a linear range of 3.2-400 ng/mL.

SDS-PAGE

Image 3. Human HER3 Protein, His Tag on SDS-PAGE under reducing condition.