

HER3/ERBB3 Active Protein | ERBB3 active protein

HER3/ERBB3 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258220

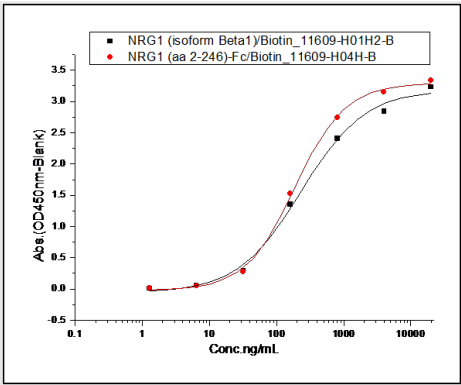
HOST
HEK293 Cells

PRODUCT SYNONYMS

HER3/ERBB3; HER3/ERBB3 Protein; Mouse; Recombinant (His Tag); Mouse HER3/ErbB3 Protein (His Tag); C76256 Protein; Erbb-3 Protein; Erbb-3r Protein; Erbb3 Protein; Erbb3r Protein; Her3 Protein; erb-b2 receptor tyrosine kinase 3; ERBB3 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>93% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-His64 1
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser 20
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse ERBB3 (Q61526) extracellular domain (Met 1-His 641) was expressed, with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. 1. Immobilized mouse ErbB3-His at 10ug/ml (100uL/well) can bind biotinylated human NRG1 (isoform Beta1) with a linear range of 0.018-0.125ug/ml. 2. Immobilized mouse ErbB3-His at 10ug/ml (100uL/well) can bind biotinylated human NRG1 (aa 2-246)-Fc with a linear range of 6.25-100ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. 1. Immobilized mouse ErbB3-His at 10 ug/ml (100 ul/well) can bind biotinylated human NRG1 (isoform Beta1) with a linear range of 0.018-0.125 ug/ml. 2. Immobilized mouse ErbB3-His at 10 ug/ml (100 ul/well) can bind biotinylated human NRG1 (aa 2-246)-Fc with a linear range of 6.25-100 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for ERBB3 active protein	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.
Product Categories/Family for ERBB3 active protein	Cancer Drug Targets Receptor Tyrosine Kinases (RTKs)
References	Kraus M.H., et al.,(1989), Isolation and characterization of ERBB3, a third member of the ERBB/epidermal growth factor receptor family: evidence for overexpression in a subset of human mammary tumors. Proc. Natl. Acad. Sci. U.S.A. 86:9193-9197. Plowman G.D., et al., (1990), Molecular cloning and expression of an additional epidermal growth factor receptor-related gene.Proc. Natl. Acad. Sci. U.S.A. 87:4905-4909. Kato M., et al.,(1993), c-erbB3 gene encodes secreted as well as transmembrane receptor tyrosine kinase.Biochem. Biophys. Res. Commun. 192:1189-1197.

NCBI AND UNIPROT INFORMATION

NCBI GI #	61098019
NCBI GeneID	13867
NCBI Accession #	NP_034283.1
NCBI GenBank Nucleotide #	NM_010153.1
UniProt Accession #	Q61526; Q3KQR1; Q68J64; Q810U8; Q8K317
Molecular Weight	147,613 Da
NCBI Official Full Name	receptor tyrosine-protein kinase erbB-3
NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 3
NCBI Official Symbol	ErbB3
NCBI Official Synonym Symbols	Her3; C76256; ErbB-3; ErbB3r

NCBI Protein Information	receptor tyrosine-protein kinase erbB-3
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-3
UniProt Gene Name	ErbB3
UniProt Entry Name	ERBB3_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/her3-erb3/258220>