

HER3/ERBB3 recombinant protein

HER3/ERBB3 Protein, Mouse, Recombinant (ECD, hFc Tag), HPLC-verified

CATALOG #
AAA259259

HOST
HEK293 Cells

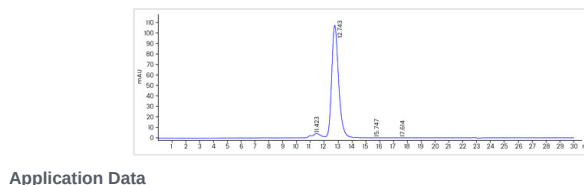
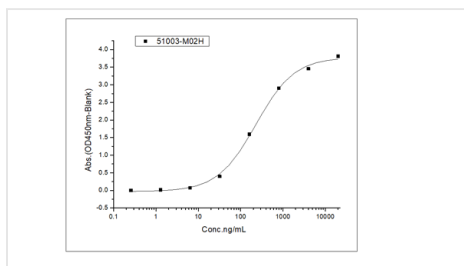
PRODUCT SYNONYMS

HER3/ERBB3; HER3/ERBB3 Protein; Mouse; Recombinant (ECD; hFc Tag); HPLC-verified; erb-b2 receptor tyrosine kinase 3; C76256 Protein; ErbB-3 Protein; ErbB-3r Protein; ErbB3 Protein; ErbB3r Protein; Her3 Protein; HER3/ERBB3 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>= 90% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Mouse
Predicted N Terminal	Ser 20
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Mouse ERBB3 (Q61526)(Met1-His641) was expressed with the Fc region of human IgG1 at the C-terminus.
Activity	Immobilized Recombinant Mouse HER3/ERBB3 Protein (ECD, Fc Tag)(Cat:51003-M02H) at 2ug/mL (100uL/well) can bind Recombinant Human NRG1-beta 1 Protein (ECD, Fc & AVI Tag), Biotinylated , the EC50 is 115-340 ng/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.

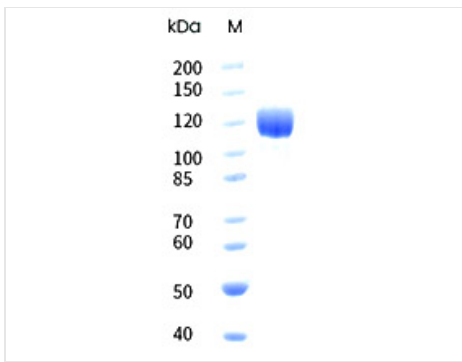
IMAGES



Application Data

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Immobilized Recombinant Mouse HER3/ERBB3 Protein (ECD, Fc Tag)(Cat:AAA259259) at 2ug/mL (100uL/well) can bind Recombinant Human NRG1-beta 1 Protein (ECD, Fc & AVI Tag), Biotinylated (Cat: 11609-H04H-B), the EC50 is 115-340 ng/mL.



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ADDITIONAL INFORMATION

Related Product Information for HER3/ERBB3 recombinant protein	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.
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. Katoh 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://www.aaabiotech.com/erbb3-recombinant-protein-hek293/259259>