

ErbB4/Her4 active protein

Recombinant human ErbB4/Her4 protein

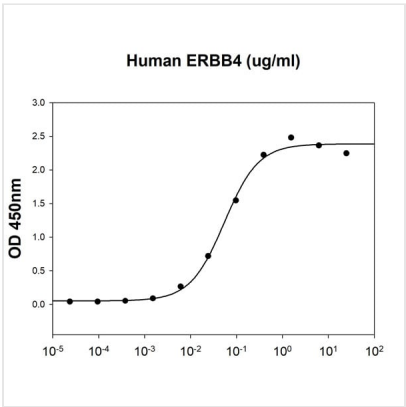
CATALOG # AAA48406	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

ErbB4/Her4; Recombinant human ErbB4/Her4 protein; Receptor tyrosine-protein kinase erbB-4; Proto-oncogene-like protein c-ErbB-4; Tyrosine kinase-type cell surface receptor HER4; p180erbB4; 4ICD; E4ICD; s80HER4; ERBB4; HER4; receptor tyrosine-protein kinase erbB-4 isoform JM-a/CVT-1; receptor tyrosine-protein kinase erbB-4; tyrosine kinase-type cell surface receptor HER4; avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4; proto-oncogene-like protein c-ErbB-4; v-erb-a erythroblastic leukemia viral oncogene homolog 4; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 4; human epidermal growth factor receptor 4; ALS19; ErbB4/Her4 active protein

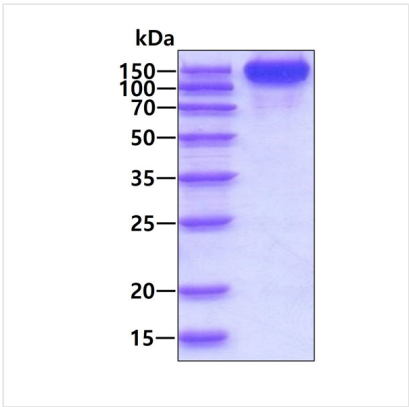
PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	26-649aa
Sequence	QSVCAGTENK LSSLSDEQQ YRALRKYYEN CEVVMGNLEI TSIEHNRDLS FLRSVREVTG YVLVALNQFR YLPLENLR II RGTKLYEDRY ALAIFLNRYK DGNFGLQELG LKNLTEILNG GVVYDQNKFL CYADTIHWQD IVRNPWPSNL TLVSTNGSSG CGRCHKSGCTG RCWGPTENHC QTLTRTVCAE QCDGRCYGPY VSDCCHRECA GGCSGPKDTD CFACMNFNDS GACVTQCPQT FVYNPTTFQL EHNFNKYTY GAFVCVKKCPH NFVVDSSSCV RACPSKMEV EENGIMCKP CTDICPKACD GIGTGLMSA QTVDSNIDK FINCTKINGN LIFLVTGIHG DPYNAIEAID PEKLVNVRTV REITGFLNIQ SWPPNMTDFS VFSNLVTIGG RVLYSGLSLL ILKQQGITS L QFQSLKEISA GNIYITDNSN LCYYHTINWT TLFSTINQRI VIRDNRKAEN CTAEGMVCNH LCSSDGCWGP GPDQCLSCRR FSRGRICIES CNLYDGEFRE FENGSIKVEC DPQCEKMEDG LLTCHGPGPD NCTKCSHFCD GPNCVEKCPD GLQGANSFIF KYADPDRECH PCHPNCTQGC NGPTSHDCIY YPWTGHSTLP QHAR
Applicable Applications for ErbB4/Her4 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	hIgG-His-Tag
Predicted N-term	Gln26
Bioactivity	Measured by its binding ability in a functional ELISA with Human NRG1/HRG1. The ED50 range <= 0.2ug/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.



Bioactivity

Human NRG1/HRG1 (CAT# ATGP3990) is coated at 10 ug/ml (100 ul/well) can bind Human ERBB4. The ED50 range



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for ErbB4/Her4 active protein	ErbB4, also known as Her4, is a receptor tyrosine kinase that is a member of the epidermal growth factor receptor family. ErbB family members serve as receptors for the EGF family of growth factors. It is a single-pass type I transmembrane protein with multiple furin-like cysteine rich domains, a tyrosine kinase domain, a phosphatidylinositol-3 kinase binding site and a PDZ domain binding motif. It is expressed in normal skeletal muscle, heart, pituitary, brain and several breast carcinomas. ErbB4 ligands include the neuregulins, beta-cellulin and heparin-binding EGF-like growth factor (HB-EGF). Monomeric ErbB4 binds its ligands with low affinity. ErbB4 appears to play important roles in neuronal development, development of the heart and cancer. Single-nucleotide polymorphisms in ERBB4 have also been found in a study of patients with familial amyotrophic lateral sclerosis type 19. Recombinant human ErbB4, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.
Product Categories/Family for ErbB4/Her4 active protein	Cancer; Signal Transduction; Proteins
References	Silberberg G., et al, (2006) American Journal of Medical Genetics Part B. 141B: 142-148. C Rio. et al, (2000) J Biol Chem. 275:10379-10387. Zimonjic DB., et al, (1995) Oncogene. 10:1235-1237.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885215
NCBI GeneID	2066
NCBI Accession #	NP_005226.1
NCBI GenBank Nucleotide #	NM_005235.2
UniProt Accession #	Q15303; Q2M1W1; Q59EW4; B7ZLD7; B7ZLE2; B7ZLE3
Molecular Weight	143,968 Da
NCBI Official Full Name	receptor tyrosine-protein kinase erbB-4 isoform JM-a/CVT-1
NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 4
NCBI Official Symbol	ERBB4
NCBI Official Synonym Symbols	HER4; ALS19; p180erbB4
NCBI Protein Information	receptor tyrosine-protein kinase erbB-4; proto-oncogene-like protein c-ErbB-4; human epidermal growth factor receptor 4; tyrosine kinase-type cell surface receptor HER4; v-erb-a erythroblastic leukemia viral oncogene homolog 4; v-erb-b2 avian erythroblast
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-4

UniProt Gene Name	ERBB4
UniProt Synonym Gene Names	HER4; 4ICD; E4ICD
UniProt Entry Name	ERBB4_HUMAN

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-active-protein/erbb4-her4/48406>