

Her2/ERBB2 Active Protein | ERBB2 active protein

Her2/ERBB2 Protein, Human, Recombinant (ECD, hFc Tag)

CATALOG #
AAA257809

HOST
HEK293 Cells

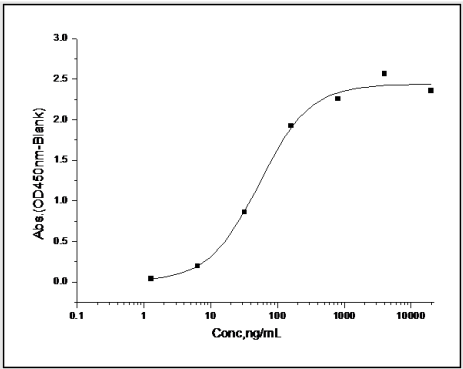
PRODUCT SYNONYMS

Her2/ERBB2; Her2/ERBB2 Protein; Human; Recombinant (ECD; hFc Tag); Human HER2/ErbB2 Protein (Fc Tag); CD340 Protein; ENV Protein; ENVW Protein; ERVWE1 Protein; HER-2 Protein; HER-2/neu Protein; HER2 Protein; HERV-7q Protein; HERV-W-ENV Protein; HERV7Q Protein; HERVW Protein; HERVWENV Protein; MLN 19 Protein; MLN19 Protein; NEU Protein; NGL Protein; TKR1 Protein; erb-b2 receptor tyrosine kinase 2; ERBB2 active protein

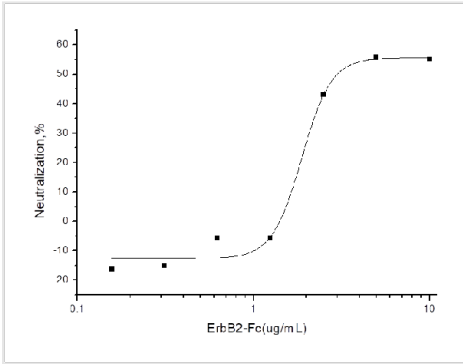
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% 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-Thr65 2
Species	Human
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized human ErbB2 at 2.5ug/ml can bind Herceptin with a linear range of 3.2-80ng/mL. 2. Measured by its ability to block anti-ErbB2 mediated inhibition of BT474 human breast ductal carcinoma cell proliferation. The ED₅₀ for this effect is 0.5-3ug/mL in the presence of 0.6ug/mL Anti-ErbB2/Her2 Monoclonal Antibody.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Thr 23
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the extracellular domain (Met 1-Thr 652) of human ErbB2 (NP_004439.2) was fused with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
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.

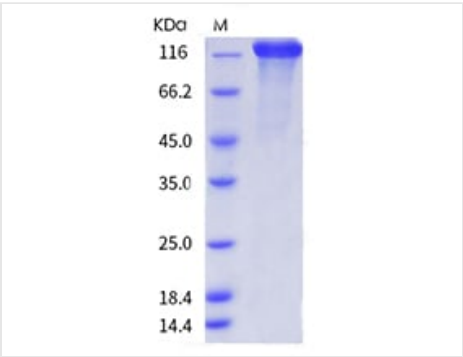
IMAGES



Application Data
Measured by its binding ability in a functional ELISA. Immobilized human ErbB2 at 2.5 ug/ml can bind Herceptin with a linear range of 3.2-80 ng/ml.



Application Data
Measured by its ability to block anti-ErbB2 mediated inhibition of BT474 human breast ductal carcinoma cell proliferation. The ED50 for this effect is 0.5-3 ug/mL in the presence of 0.6 ug/mL Anti-ErbB2/Her2 Monoclonal Antibody.



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ERBB2 active protein	Background: Human epidermal growth factor receptor 2 (HER2), also known as ErbB2, NEU, and CD340, is a type I membrane glycoprotein and belongs to the epidermal growth factor (EGF) receptor family. HER2 protein cannot bind growth factors due to the lacking of ligand binding domain of its own and autoinhibited constitutively. However, HER2 forms a heterodimer with other ligand-bound EGF receptor family members, therefore stabilizes ligand binding and enhances kinase-mediated activation of downstream molecules. HER2 plays a key role in development, cell proliferation and differentiation. HER2 gene has been reported to associate with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate, ovarian, lung cancers and so on.
Product Categories/Family for ERBB2 active protein	Cancer Drug Targets Receptor Tyrosine Kinases (RTKs)
References	Krawczyk N, et al. (2009) HER2 status on persistent disseminated tumor cells after adjuvant therapy may differ from initial HER2 status on primary tumor. Anticancer Res. 29(10): 4019-24.

NCBI AND UNIPROT INFORMATION

NCBI GI #	54792096
NCBI GeneID	2064
NCBI Accession #	NP_004439.2
NCBI GenBank Nucleotide #	NM_004448.3
UniProt Accession #	P04626; Q14256; Q6LDV1; Q9UMK4; B2RZG3; B4DHN3; X5D2V5
Molecular Weight	97,253 Da
NCBI Official Full Name	receptor tyrosine-protein kinase erbB-2 isoform a

NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 2
NCBI Official Symbol	ERBB2
NCBI Official Synonym Symbols	NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu
NCBI Protein Information	receptor tyrosine-protein kinase erbB-2; herstatin; p185erbB2; proto-oncogene Neu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph node gene 19 protein; human epidermal growth factor receptor 2; neuro/glioblastoma derived oncogene homolog;
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-2
UniProt Gene Name	ERBB2
UniProt Synonym Gene Names	HER2; MLN19; NEU; NGL; MLN 19
UniProt Entry Name	ERBB2_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-cells-active-protein/her2-erbb2/257809>