

Recombinant Human V-Erb-B2 Erythroblastic Leukemia Viral Oncogene Homolog 2, Neuro/Glioblastoma Derived Oncogene Homolog (avian), Methionine

Cat. No. ERBB2-894H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ErbB-2 Human Recombinant is a 43.4 kDa protein containing 397 amino acid residues of the human Herstatin, and an extra Methionine at N-Terminal (underlined), produced in E.coli. The ErbB2 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
Description	HER-2/neu (erbB-2) encodes an 185-kDa orphan receptor tyrosine kinase that is constitutively active as a dimer and displays potent oncogenic activity when overexpressed. Herstatin, as the product of alternative HER-2 transcript, retains intron 8.
Form	Filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH=4.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to add 0.1M Acetate buffer pH=4 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant

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buffer to a concentration of 10mg/ml. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture. It is recommended to add 5mM DTT and 0.1-0.15M NaCl before freezing in order to prevent potential aggregation.

Amino acid sequence

MTQVCTGTDM KLRLPASPET HLDMLRHLYQ GCQVVQGNLE LTYLPTNASL
SFLQDIQEVQ GYVLIAHNQV RQVPLQRLRI VRGTQLFEDN YALAVLDNGD
PLNNTTPVTG ASPGGLRELQ LRSLTEILKG GVLIQRNPQL CYQDTILWKD
IFHKNNQLAL TLIDTNRSRA CHPCSPMCKG SRCWGRESSED CQSLTRTVCA
GGCARCKGPL PTDCCHEQCA AGCTGPKHSD CLACLHFNHS GICELHCPAL
VTYNTDTFES MPNPEGRTYF GASCVTACPY NYLSTDVGSC TLVCPLHNQE
VTAEDGTQRC EKCSKPCARG THSLPPRPAA VPVPLRMQPG PAHPVLSFLR
PSWDLVSAFY SLPLAPLSPT SVPISPVSVG RGPDPDAHVA VDLSRYEG.

Storage

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time. The lyophilized protein remains stable until the expiry date when stored at -20°C.

GENE INFORMATION

Gene Name

ERBB2 v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) [Homo sapiens]

Official Symbol

ERBB2

Synonyms

ERBB2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian); NEU; NGL; HER2; TKR1; CD340; HER-2; HER-2/neu; erbB-2; herstatin; c-erb B2/neu protein; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 avian

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erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); C-erbB-2; EC 2.7.10.1; p185erbB2; CD340 antigen; MLN 19; NEU proto-oncogene; Tyrosine kinase-type cell surface receptor HER2

Gene ID

2064

mRNA Refseq

NM_001005862

Protein Refseq

NP_001005862

MIM

164870

UniProt ID

P04626

**Chromosome
Location**

17q11.2-q12; 17q21.1

Pathway

Adherens junction; Bladder cancer; Calcium signaling pathway; Endometrial cancer

Function

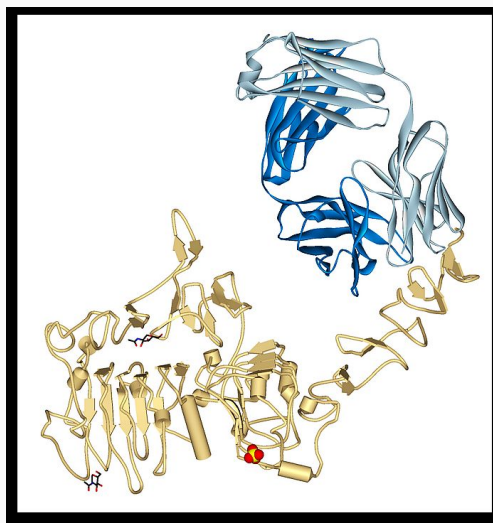
ATP binding; ErbB-3 class receptor binding; Hsp90 protein binding; epidermal growth factor receptor activity; glycoprotein binding; growth factor binding; identical protein binding; nucleotide binding; protein C-terminus binding; protein heterodimerization activity; protein phosphatase binding; receptor signaling protein tyrosine kinase activity; transferase activity; transmembrane receptor activity; ubiquitin protein ligase binding

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