

Recombinant Human, ERBB2

Cat. No. ERBB2-3681H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Herstatin Protein (397aa + N-terminal methionin, total 398aa), was expressed in Mammalian Cells without tag (calculated MW: 43.4 kDa).
Species	Human
Source	E.coli
Description	HER2 is a cell membrane surface-bound receptor tyrosine kinase and is normally involved in the signal transduction pathways leading to cell growth and differentiation. It is encoded within the genome by HER2/neu, a known proto-oncogene. HER2 is thought to be an orphan receptor, with none of the EGF family of ligands able to activate it. However, ErbB receptors dimerise on ligand binding, and HER2 is the preferential dimerisation partner of other members of the ErbB family. The HER2 gene is a proto-oncogene located at the long arm of human chromosome 17(17q21-q22).
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.05 M Acetate buffer pH4
Research topic	Oncology
Purity	>95%
Reconstitution	Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of

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10µg/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. Add DTT (5 mM) and NaCl (0.1-0.15 M) before freezing to prevent potential aggregation.

Applications

ELISA; Western blotting

Quality Control Test

BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein

Sequences of amino acids

MTQVCTGTDMLRLPASPETHLDMLRHLYQGCQVVQGNLE LTYLPTNASL
SFLQDIQEVQGYVLIAHNQVRQVPLQRLRIRVGTQLFEDNYALAVLDNGD
PLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKD
IFHKNNQLALTLIDTNRSLRCHPCSPMCKGSRCWGESSED CQSLTRTVCA
GGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPAL
VTYNTDTFESMPNPEGRTYFGASCVTACPNYLSTDVGSC TLVCPLHNQE
VTAEDGTQRC EKCSKPCARGTHSLPPRPAAVPVPLRMQPGPAHPVLSFLR
PSWDLVSAFYSLPLAPLSPTSVPISPVSVG RGPDPDAHVAVDLSRYEG

Storage

Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name

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

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Official Symbol	ERBB2
Synonyms	NEU; NGL; HER2; TKR1; CD340; HER-2; HER-2/neu; EC 2.7.10.1; C-erbB-2; erbB-2; c-erb B2/neu protein; erbB-2; herstatin; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); NEU proto-oncogene; MLN 19; CD340 antigen; ERBB2
Gene ID	2064
mRNA Refseq	NM_001005862
Protein Refseq	NP_001005862
MIM	164870
UniProt ID	P04626
Chromosome Location	17q21.1
Pathway	Adherens junction; Calcium signaling pathway; Dorso-ventral axis formation Endometrial cancer; ErbB signaling pathway; Focal adhesion; Non-small cell lung cancer; Pancreatic cancer; Prostate cancer
Function	ATP binding; ErbB-3 class receptor binding; calcium ion binding; epidermal growth factor receptor activity; identical protein binding; non-membrane spanning protein tyrosine kinase activity; protein tyrosine kinase activity.
Trastuzumab Fab-HER2 complex 1N8Z	

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