

Recombinant Human ERBB2 protein, Fc-tagged

Cat. No. ERBB2-40H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERBB2 Protein (23-450aa), was expressed in human 293 cells (HEK293) with C-terminal human IgG1 Fc tag.
Species	Human
Source	HEK293
ProteinLength	23-450 aa
Description	Human Epidermal growth factor Receptor 2 (HER2),also called ERBB2, HER-2,HER-2/neu, NEU, NGL,TKR1 and c-erb B2,and is a protein giving higher aggressiveness in breast cancers. It is a member of the ErbB protein family, more commonly known as the epidermal growth factor receptor family. 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. HER2 is thought to be an orphan receptor, with none of the EGF family of ligands able to activate it. Approximately 30% of breast cancers have an amplification of the HER2 gene or overexpression of its protein product. Overexpression of this receptor in breast cancer is associated with increased disease recurrence and worse prognosis. HER2 appears to play roles in development, cancer,communication at the neuromuscular junction andregulation of cell growth and differentiation.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 74.5 kDa. The predicted N-terminus is Thr 23. The reducing (R) protein migrates as 95-100 kDa in SDS-PAGE due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ERBB2
Official Symbol	ERBB2
Synonyms	ERBB2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian); NGL, v erb b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); receptor tyrosine-protein kinase erbB-2; CD340; HER 2; HER2; NEU; herstatin; p185erbB2; proto-oncogene Neu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph node gene 19 protein; tyrosine kinase-type cell surface receptor HER2; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma

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derived oncogene homolog); NGL; TKR1; HER-2; MLN 19; HER-2/neu

Gene ID 2064

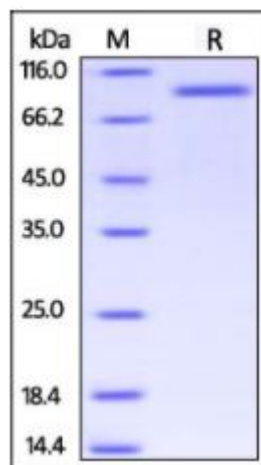
mRNA Refseq NM_001005862

Protein Refseq NP_001005862

MIM 164870

UniProt ID P04626

**SDS-PAGE of
ERBB2-40H**



Human Her2 (23-450), Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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