

Recombinant Human c-ERBB2

Cat. No. ERBB2-18H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human c-erbB2 Protein (537-636aa), was expressed in E.coli without tag (purified via proprietary chromatographic techniques).
Species	Human
Source	E.coli
ProteinLength	537-636 aa
Description	c-erbB-2 is a receptor tyrosine kinase of the c-erbB family. It is closely related in structure to the epidermal growth factor receptor. c-erbB-2 oncoprotein is detectable in a proportion of breast and other adenocarcinomas, as well as transitional cell carcinomas. In the case of breast cancer, expression determined by immunohistochemistry has been shown to be associated with poor prognosis.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC (b) Analysis by SDS-PAGE.
Formulation	c-erbB2 at 100 µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Application And Suggested Dilutions	• ELISA • Inhibition Assays • Western Blotting.

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Characterization	On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 37 kDa.
Storage	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please avoid freeze-thaw cycles.
GENE INFORMATION	
Gene Name	ERBB2 v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) [Homo sapiens]
Synonyms	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; ERBB2; erbB-2; herstatin; c-erb B2/neu protein; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 avian 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

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Pathway

Adherens junction; Bladder cancer; Calcium signaling pathway; Endometrial cancer; ErbB signaling pathway; Focal adhesion; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Prostate cancer; Axon guidance

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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