

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

Cat. No. ERBB2-1215H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERBB2 Protein cytoplasmic domain (676-1255aa), was expressed in Insect Cells with His tag (no special measures for kinase activation).
Species	Human
Source	Insect Cells
ProteinLength	676-1255 aa
Description	ERBB2 stands for "Human Epidermal growth factor Receptor 2" 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/neu has also been designated as CD340 (cluster of differentiation 340) and p185. It is encoded by the ERBB2 gene.
Form	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.01% CHAPS + 2 Mm DTT + 50% glycerol.
Molecular Weight	68.6 kDa
Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	ERBB2

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GENE INFORMATION

Gene Name	ERBB2 v-erb-b2 erythroblasticleukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogenehomolog (avian) [Homo sapiens]
Synonyms	ERBB2; v-erb-b2erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derivedoncogene homolog (avian); NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19;HER-2/neu; receptor tyrosine-protein kinase erbB-2; herstatin; p185erbB2; proto-oncogeneNeu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph nodegene 19 protein; tyrosine kinase-type cell surface receptor HER2; neuroblastoma/glioblastomaderived oncogene homolog; v-erb-b2 avian erythroblastic leukemia viraloncogene homolog 2 (neuro/glioblastoma derived oncogene homolog)
Gene ID	2064
mRNA Refseq	NM_004448
Protein Refseq	NP_004439
MIM	164870
UniProt ID	P04626
Chromosome Location	17q11.2-q12
Pathway	Adherens junction;Alpha6-Beta4 Integrin Signaling Pathway; Axon guidance; Bladder cancer; Calciumsignaling pathway; Developmental Biology; Endometrial cancer; ErbB receptorsignaling network; ErbB signaling pathway; ErbB2/ErbB3 signaling events;Focal Adhesion; Focal adhesion; Non-small cell lung cancer;

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Pancreaticcancer; Sema4D in semaphorin signaling

Function

ATP binding; ErbB-3class receptor binding; Hsp90 protein binding; RNA polymerase I core binding;epidermal growth factor-activated receptor activity; glycoprotein binding;contributes_to growth factor binding; identical protein binding; nucleotidebinding; protein C-terminus binding; protein binding; protein dimerizationactivity; protein heterodimerization activity; protein phosphatase binding;receptor activity

**PDBrendering based
on 1n8z.**

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