

Recombinant Human ERBB2 Protein

Cat. No. ERBB2-287H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERBB2 Protein, was expressed in HEK293 without tag.
Species	Human
Source	HEK293
ProteinLength	1255
Description	This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized.
Form	Lyophilized
Molecular Mass	70 kDa

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AA Sequence

MELAALCRWG LLLALLPPGAASTQVCTG TDMKRLRPASPETHLDMRLHLYQGCQVV
 QGNLELT YLPTNASLSFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRG TQLFEDNYAL
 AVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDI
 FHKNNQLALTIDTNRSRACHPCSPMCKGSRCWGESSEDCQSLTRTV CAGGCARC
 KGPLPTDCCHEQCAAGCTGPKHSDCLACLFHNHSGICELHCPALVTYNTDTFESMP
 NPEGRYTFGASCVTACPYNYLSTDVGSCTLV CPLHNQEVT AEDGTQRCEKCSKPC
 ARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPE
 QLQVFETLEEITGYLYISAWPDSL PDLVSFQNLQVIRGRILHNGAYS LTLQGLGISWL
 GLRSLRELGSG LALIHNNTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGL
 ACHQLCARGHCWGP GPTQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPC
 HPECQPQNGSVTCFGPEADQCVACAHYKDPPFCVARCP SGVKPDL SYMPIWKFPD
 EEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIISAVV GILLVVVLGVVFILIKR
 RQQKIRKYTMRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGT V
 YKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGV GSPYVSRLLGICLTST
 VQLVTQLMPYGC LLDHVREN RGR LGSQDLLNWCMQIAKGMSYLEDVRLVHRDLAA
 RNVLVKSPNHVKITDFGLARLLDIDET EYHADGGKVPIKWMAL ESILRRRFTHQSDV
 WSYGVTWELMTFGAKPYDGIPAREIPDLLEKGERLPQPP ICTIDVYMIMVKCWMID
 SECRPRFREL VSEFSRMARDPQR FVVIQNE DLGPASPLDSTFYRSLLEDDDMGDLV
 DAE EYLVPQQGFFCPDPAPGAGGMVHHRHRSSTRSGGGDLTLGLEPSEEEAPRS
 PLAPSEGAGSDVFDGDLGMGA AKGLQSLPTHDP SPLQRYSEDPTVPLPSETDGYV
 APLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERPKT LSPGKNGVVKDV
 FAFGGAVENPEYLTPQGGAAPQPHPPPAFSPA FDNLYYWDQDPPERGAPPSTFKG
 TPTAENPEYLG LDVPV

Purity

> 98%

Applications

WB; ELISA; FACS; FC

Stability

This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18

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	centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.
GENE INFORMATION	
Gene Name	ERBB2 v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) [Homo sapiens (human)]
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 derived oncogene homolog); NGL; TKR1; HER-2; MLN 19; HER-2/neu;
Gene ID	2064

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mRNA Refseq	NM_001005862
Protein Refseq	NP_001005862
MIM	164870
UniProt ID	P04626

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