

Recombinant Human ERBB2 Protein, Fc-tagged

Cat. No. ERBB2-283H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ERBB2 Protein, was expressed in HEK293 with Fc 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 74.5 kDa

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AA Sequence

MELAALCRWGLLLALLPPGAASTQVCTGTMKRLRLPASPETHDMLRHLYQGCQVV
 QGNLELYLPTNASLSFLQDIQEVQGYVLIHNRQVRQVPLQRLRIVRGTQLFEDNYAL
 AVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDI
 FHKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSEDCQSLTRTVCAAGGCARC
 KGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTFESMP
 NPEGRYTFGASCVTACPYNLSTDVGSCTLVCPLHNQEVAEDGTQRCEKCKSPC
 ARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPE
 QLQVFETLEEITGYLYISAWPDSLPLDSVFNQLQVIRGRILHNGAYSLLTQGLGISWL
 GLRSLRELGSGLALIHNNHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGE
 ACHQLCARGHCWGPPTQCVNCSQFLRGQECVEECRVLQGLPREYVVARHCLPC
 HPECQPQNGSVTCFGPEADQCVACAHYKDPFPCVARCPSGVKPDLSYMPIWKFPD
 EEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIISAVVGILLVVVLGVVFGILIKR
 RQQKIRKYTMRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGTV
 YKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGVGVSPYVSRLLGICLTST
 VQLVTQLMPYGCLLDHVRENRGRLGSQDLLNWCMIKAGMSYLEDVRLVHRDLAA
 RNVLVKSPNHVKITDFGLARLLDIDETEYHADGGKVPIKWMALLESILRRRFTHQSDV
 WSYGVTWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMID
 SECRPRFRELVSEFSRMARDPQRFVVIQNE DLGPASPLDSTFYRSLLEDDDMGDLV
 DAEYLVPPQQGFFCPDPAPGAGGMVHHRHRSSTRSGGGDLTLGLEPSEEEAPRS
 PLAPSEGAGSDVFDGDLGMGAAGLQSLPHTDPSPLQRYSEDPTVPLPSETDGYV
 APLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERPKTLSPGKNGVVKDV
 FAFGGAVENPEYLTPQGGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKG
 TPTAENPEYLGLDVPV

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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