

Recombinant Full Length Human ERBB2 Protein, GST-tagged

Cat. No. ERBB2-4385HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERBB2 Protein (AAI56756.1, 1-1255aa), full-length, was expressed in In Vitro Cell Free System with N-terminal GST tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	1-1255 aa
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. [provided by RefSeq, Jul 2008]
Molecular Mass	164.45 kDa
AA Sequence	MELAALCRWGLLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHLYQGCQVV

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QGNLELTYLPTNASLSFLQDIQEVQGYVLIHQNVRQVPLQRLRIVRGTQLFEDNYAL
 AVLNDGDPLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDI
 FHKNNQLALTLIDTNRSRACHPCSPMCKGSRGWGESSEDCQSLTRTVCAAGGCARC
 KGPLPTDCCHEQCAAGCTGPKHSDCLACHFNHSGICELHCPALVTYNTDTFESMP
 NPEGRYTFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVTAEEDGTQRCEKCSKPC
 ARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPE
 QLQVFETLEEITGYLYISAWPDSLPLDSVFQNLQVIRGRILHNGAYSLTLQGLGISWL
 GLRSLRELGSGALIHNNHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGL
 ACHQLCARGHCWGPPTQCVNCSQFLRGQECVEECRVLQGLPREYVNARHCLPC
 HPECQPQNGSVTCFGPEADQCVACAHYKDPFFCVARCPGSKPDLSYMPIWKFPD
 EEGACQPCPINCTHSCVDLDDKGCPAEQRASPLTSIISAVVGILLVVVLGVVFGILIKR
 RQQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGT
 YKGIWIPDGENVKIPVAIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTST
 VQLVTQLMPYGCLLDHVRENRRGLGSQDLLNWCMQIAKGMSYLEDVRLVHRDLAA
 RNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVPIKWMALLESILRRRFTHQSDV
 WSYGVTWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYMIMVKCWMID
 SECRPRFRELVSFESRMARDPQRFVVIQNEGLGPASPLDSTFYRSLLEDDDMGDLV
 DAEYLVPQQGFFCPDPAPGAGGMVHHRHRSSTRSGGGDLTLGLEPSEEEAPRS
 PLAPSEGAGSDVFDGDLGMGAAGLQSLPTHDPSPQLQRYSEDPTVPLPSETDGYV
 APLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLERPKTLSPGKNGVVKDV
 FAFGGAVENPEYLTPQGGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKG
 TPTAENPEYLGLDVPV

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name ERBB2 v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) [Homo sapiens]

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

mRNA Refseq NM_001005862

Protein Refseq NP_001005862

MIM 164870

UniProt ID P04626

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