Recombinant Human ERBB2

Cat. No. ERBB2-26845TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ErbB2 Protein fragment (1 initial methionine + 23-340aa of Human ErbB2 + 79aa of intron 8), was expressed in unspecified system without tag.
Species	Human
Source	E.coli
ProteinLength	23-340 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.
Tissue specificity	Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 0.05M Sodium acetate, pH 4
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	M-TQVCTGTDM KLRLPASPET HLDMLRHLYQ GCQVVQGNLELTYLPTNASL SFLQDIQEVQ GYVLIAHNQV RQVPLQRLRIVRGTQLFEDN YALAVLDNGD PLNNTTPVTG ASPGGLRELQLRSLTEILKG GVLIQRNPQL CYQDTILWKD IFHKNNQLALTLIDTNRSRA CHPCSPMCKG SRCWGESSED CQSLTRTVCAGGCARCKGPL PTDCCHEQCA AGCTGPKHSD CLACLHFNHSGICELHCPAL VTYNTDTFES MPNPEGRYTF GASCVTACPYNYLSTDVGSC TLVCPLHNQE VTAEDGTQRC EKCSKPCARGTHSLPPRPAA VPVPLRMQPG PAHPVLSFLR PSWDLVSAFYSLPLAPLSPT SVPISPVSVG RGPDPDAHVA VDLSRYEG
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily.Contains 1 protein kinase domain.

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	oncogene homolog); receptor tyrosine-p
Gene ID	2064
mRNA Refseq	NM_001005862
Protein Refseq	NP_001005862
MIM	164870
Uniprot ID	P04626
Chromosome Location	17q11.2-q12
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem;
Function	ATP binding; ErbB-3 class receptor binding; Hsp90 protein binding; RNA polymerase I core binding; epidermal growth factor-activated receptor activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA