Recombinant Full Length Human ERBB2 Protein, C-DDK-tagged

Cat. No. ERBB2-519HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ERBB2 Protein, was expressed in Sf9 with C-terminal DDK tag.
Species	Human
Source	Mammalian Cells
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	50mM Tris-HCl pH8.0, 100mM glycine, 10% glycerol.
Molecular Mass	138 kDa

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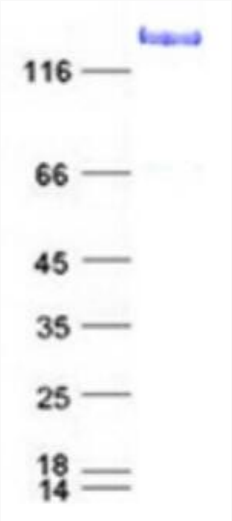
AA Sequence	A DNA sequence from TrueORF clone, RC212583, encoding human full-length ERBB2.
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Protein Families	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways	Adherens junction, Bladder cancer, Calcium signaling pathway, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer
Full Length	Full L.

GENE INFORMATION

Gene Name	ERBB2 erb-b2 receptor tyrosine kinase 2 [Homo sapiens (human)]
Official Symbol	ERBB2
Synonyms	NEU; NGL; HER2; TKR1; CD340; HER-2; VSCN2; MLN 19; MLN-19; c-ERB2; c-ERB-2; HER-2/neu; p185(erbB2)
Gene ID	2064

mRNA Refseq	NM_004448.4
Protein Refseq	NP_004439.2
MIM	164870
UniProt ID	P04626
SDS-PAGE	

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