

Product datasheet for TP312583L

Her2 (ERBB2) (NM_004448) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) (ERBB2), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC212583 representing NM_004448
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MELAALCRWGLLLALLPPGAASTQVCTGTDMLKRLPASPETHLDMLRHLYQGCQVWQGNLELTYLPTNAS
LSFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTLFEDNYALAVLDNGDPLNNTTPTVGTGASPGGLREL
QLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRCWGESSE
DCQSLTRTVACAGGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFNHSGICELHCPALVTYNTDTE
SMPNPEGRYTFGASCVTACPYNYLSTDVGSCTLVCLPHNQEVTAEDGTQRCEKCSKPCARVCYGLGMEHL
REVRVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGPLYISAWPDSL
DLSVFQNLQVIRGRILHNGAYSLTLQGLGISWLGLRSLRELGSGLALIHHTHLCFVHTVPWDQLFRNPH
QALLHTANRPEDECVGEGLACHQLCARGHCWGPPTQCVNCSQFLRGQECVEECRVLQGLPREYVNRHC
LPCHPECQPQNGSVTCFLEADQCVACAHYKDPFVCARCPGKPDLSYMPIWKFPDEEGACQPCPINC
THSCVDLDDKGCPAEQRASPLTSIISAVVGILLVVVGVVFGILIKRRQKIRKYTMRRLLQETELVEPL
TPSGAMPNQAQMILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPVAIKVRENTSPKANKEILDE
AYVMAGVGSPPYVSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRRGLGSDLLNWCMIKAGMSYLEDVR
LVHRDLAARNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVPIKWMALLESILRRRFTHQSDVWSYGV
TVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTIDVYIMVCKWMIDSECRPRFRELVEFSRMA
RDPQRFVVIQNE DLGPASPLDSTFYRSLLEDDDMGDLVDAEEYLVPPQGGFFCPDPAGAGGMVHHRHRS
STRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAGLQSLPHTDPSPLQRYSEDPTVPL
PSETDGYVAPLTCSPQPEYVNQPDVPRQPPSPREGPLPAARPAGATLERPKTLPSPGKNGVVKDVFVAFGGA
VENPEYLTQQGGAAPQHPPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLGLDVVP

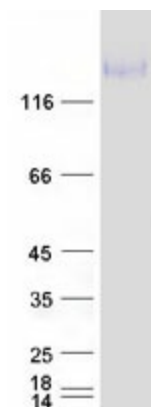
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	137.7 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method



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Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	ELISA capture for autoantibodies (PMID: 27323861) ELISA capture for autoantibodies (PMID: 27793776)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004439
Locus ID:	2064
UniProt ID:	P04626 , X5DNK3
RefSeq Size:	4624
Cytogenetics:	17q12
RefSeq ORF:	3765
Synonyms:	CD340; HER-2; HER-2/neu; HER2; MLN 19; NEU; NGL; TKR1
Summary:	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]
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

Product images:

Coomassie blue staining of purified ERBB2 protein (Cat# [TP312583]). The protein was produced from HEK293T cells transfected with ERBB2 cDNA clone (Cat# [RC212583]) using MegaTran 2.0 (Cat# [TT210002]).