Recombinant Human ERBB2 Protein, C-Myc/DDK-tagged

Product Information

Cat	*IMP-7552*
Official Symbol	*ERBB2*
Product Overview	*Recombinant protein of human v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) (ERBB2), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.*
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.*
Expression System	*HEK293T*
Species	*Human*
Tag	*C-Myc/DDK*
Form	*25mM Tris.HCl, pH 7.3, 100mM glycine, 10% glycerol*
Molecular Mass	*137.7 kDa*
AA Sequence	*MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMLRHL YQGCQVVQGNLELTYLPTNASLSFLQDIQEVQGYVLIAHNQVRQVPLQRL RIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILK GGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPMCK GSRCWGESSEDCQSLTRTVCAGGCARCKGPLPTDCCHEQCAAGCTGP KHSDCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRYTFGASCVT ACPYNYLSTDVGSCTLVCPLHNQEVTAEDGTQRCEKCSKPCARVCYGLG MEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQ LQVFETLEEITGYLYISAWPDSLPDLSVFQNLQVIRGRILHNGAYSLTLQGL GISWLGLRSLRELGSGLALIHHNTHLCFVHTVPWDQLFRNPHQALLHTAN RPEDECVGEGLACHQLCARGHCWGPGPTQCVNCSQFLRGQECVEECR*

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VLQGLPREYVNARHCLPCHPECQPQNGSVTCFGLEADQCVACAHYKDP
PFCVARCPSGVKPDLSYMPIWKFPDEEGACQPCPINCTHSCVDLDDKGC
PAEQRASPLTSIISAVVGILLVVVLGVVFGILIKRRQQKIRKYTMRRLLQETE
LVEPLTPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGEN
VKIPVAIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLLGICLTSTVQLV
TQLMPYGCLLDHVRENRGRLGSQDLLNWCMQIAKGMSYLEDVRLVHRD
LAARNVLVKSPNHVKITDFGLARLLDIDETEYHADGGKVPIKWMALESILR
RRFTHQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPI
CTIDVYMIMVKCWMIDSECRPRFRELVSEFSRMARDPQRFVVIQNEDLGP
ASPLDSTFYRSLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGMVH
HRHRSSSTRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGM
GAAKGLQSLPTHDPSPLQRYSEDPTVPLPSETDGYVAPLTCSPQPEYVN
QPDVRPQPPSPREGPLPAARPAGATLERPKTLSPGKNGVVKDVFAFGGA
VENPEYLTPQGGAAPQPHPPPAFSPAFDNLYYWDQDPPERGAPPSTFK
GTPTAENPEYLGLDVPVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

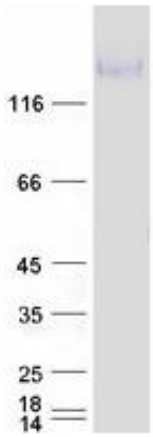
Storage

Store at -80 centigrade. Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Concentration

> 50 μg/mL as determined by microplate BCA method.

SDS-PAGE



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