

Recombinant Human Receptor tyrosine-protein kinase erbB-2(ERBB2),partial

Catalog No: #AP70278

Package Size: #AP70278-1 20ug #AP70278-2 100ug #AP70278-3 1mg



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Description

Product Name	Recombinant Human Receptor tyrosine-protein kinase erbB-2(ERBB2),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:23-652aaSequence Info:Extracellular Domain
Other Names	Metastatic lymph node gene 19 protein ;MLN 19Proto-oncogene NeuProto-oncogene c-ErbB-2Tyrosine kinase-type cell surface receptor HER2p185erbB2;; CD340
Accession No.	P04626
Calculated MW	73.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	TQVCTGTDMLRRLPASPETHLDMLRHLYQGCQVVQGNLELTYLPTNASLSFLQDIQEVQGYVLIAHNQVRQVPLQRLRIVRGTQLFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDITLWKDIFHKNNQLALTLIDTNRSRACHPCSPMCKGSRWGESSEDCQSLTRTVCAAGGCARCKGPLPTDCHEQC AAGCTGPKHSDCLACLHFNHSGICELHCPALVYNTDTFESMPNPEGRYTFGASCVTACPYNLSTDVGSLTVLVCPLHNQEVTAEADGTQRCEKCSKPCARVCYGLGMEHLREVRAVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVFETLEEITGYLYISAWPDSLPLSVFQNLQVIRGRILHNGAYSLTLQGLGISWLGRLSLRELGSGLALIHHTHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHCWGPPTQCVNCSQFLRGQECVVEECRVLQGLPREYVNRHCLPCHPECPQNGSVTCFGPEADQCACAHYKDPFPCVVARCPGSKVLPDLSYMPIWKFPEDEEGACQPCPINCTHSCVDLDDKGCPAEQRASPLT
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell mbrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell mbrane. In turn, mbrane-bound APC allows the localization of MACF1 to the cell mbrane, which is required for microtubule capture and stabilization.In the nucleus is involved in transcriptional regulation. Associates with the 5'-TCAAATTC-3' sequence in the PTGS2,COX-2 promoter and activates its transcription. Implicated in transcriptional activation of CDKN1A; the function involves STAT3 and SRC. Involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth.

References

Similarity of protein encoded by the human c-erb-B-2 gene to epidermal growth factor receptor. Yamamoto T., Ikawa S., Akiyama T., Semba K., Nomura N., Miyajima N., Saito T., Toyoshima K. Nature 319:230-234(1986) Research Topic: Transcription

Note: This product is for in vitro research use only and is not intended for use in humans or animals.