

Product Information

MemDX™ Membrane Protein Human ERBB2 (Erb-b2 receptor tyrosine kinase 2) Full Length

Cat. No.: **MPC1721K**

This product is for research use only and is not intended for diagnostic use.

This product is a 137.9 kDa Human ERBB2 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ERBB2

Protein Length

Full length

Protein Class

Transferase

Molecular Weight

137.9 kDa

TMD

1

Sequence

MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMRLHLY
QGCQVVQGNLELTYPNASLSFLQDIQEVQGYVLIHNRQVRQVPLQRLR
IVRGTLQFEDNYALAVLDNGDPLNNTTPVTGASPGGLRELQLRSLTEILK
GGVLIQRNPQLCYQDITLWKDIFHKNNQLALTLIDTNRSRACHPCSPMCK
GSRCWGESSEDCQSLTRTVCAAGCARCKGPLPTDCCHEQCAAGCTGPKHS
DCLACLHFNHSGICELHCPALVTYNTDTFESMPNPEGRTYFGASCVTACP
YNYLSTDVGSCITLVCPLHNQEVTAEADGTQRCEKCSKPCARVCYGLGMEHL
REVRVTSANIQEFAGCKKIFGSLAFLPESFDGDPASNTAPLQPEQLQVF
ETLEEITGYLYISAWPDSLPLSVFQNLQVIRGRILHNGAYSLTLQGLGI
SWLGLRSLRELGSGLALIHNNHLCFVHTVPWDQLFRNPHQALLHTANRP
EDECVGEGLACHQLCARGHCWGPQPTQCVNCSQFLRGQECVEECRVLQGL
PREYVNRHLCPECPQNGSVTCFGPEADQCVACAHYKDPPFCVARC
PSGVKPDLSYMPIWKFPDEEGACQPCINCTHSCVDLDDKGCPAEQRASP
LTSISAVVGILLVVVLGVVFGILIKRRQQKIRKYTMRRLLQETELVEPL
TPSGAMPNQAQMRILKETELRKVKVLGSGAFGTVYKGIWIPDGENVKIPV
AIKVLRENTSPKANKEILDEAYVMAGVGSPYVSRLGICLTSTVQLVTQL
MPYGCLLDHVRENRRGLGSQDLLNWCMIKAGMSYLEDVRLVHRDLAARN
VLVKSPNHVKITDFGLARLLDIDETEHADGGKVPKWMALLESILRRRFT
HQSDVWSYGVTVWELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICTID
VYMIMVKCWMIDSECRPRFRELVSEFSRMARDPQRFVVIQNEDLGPASPL
DSTFYRSLLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGGMVHHRHRS

STRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAGLQS
LPTHDPSPQLQRYSEDPTVPLPSETDGYVAPLTCSPQPEYVNQPDVRPQPP
SPREGPLPAARPAAGATLERPKTLSPGKNGVVKDVFAFGGAVENPEYLTPQ
GGAAPQPHPPAFSPAFDNLYYWDQDPPERGAPPSTFKGTPTAENPEYLG
LDVPV

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ERBB2

Full Name

Erb-b2 receptor tyrosine kinase 2

Introduction

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.

Alternative Names

ERBB2; NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu; receptor tyrosine-protein kinase erbB-2; c-erb B2/neu protein; herstatin; human epidermal growth factor receptor 2; metastatic lymph node gene 19 protein; neuro/glioblastoma derived oncogene homolog; neuroblastoma/glioblastoma derived oncogene homolog; proto-oncogene Neu; proto-oncogene c-ErbB-2; tyrosine kinase-type cell surface receptor HER2; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2; v-erb-b2 avian erythroblastic leukemia viral oncoprotein 2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog; Erb-b2 receptor tyrosine kinase 2

Gene ID

[2064](#)

UniProt ID

