

Product datasheet for TP509803

Egfr (NM_007912) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse epidermal growth factor receptor (Egfr), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR209803 representing NM_007912
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MRPSGTARTLLVLLTALCAAGGALEEKVCQGTSNRLTQLGTFEDHFLSLQRMYNCEWVLGNLEITYV
QRNYDLSFLKTIQEVAGYVLIANTVERIPLNQLIIRGNALYENTYALAILSNYGTNRGLRELPMRNL
QEILIGAVRFSNPNILCNMDTIQWRDIVQNVFMSNMSMDLQSHSPSCPDKPSCPNGSCWGGGEENCQKL
TKIICAQQCSHRCRGRSPSDCCHNQCAAGCTGPRESCLVCQKFQDEATCKDTCPLMLYNPTTYQMDVN
PEGKYSFGATCVKKCPRNYVTDHGSCVRACGPDYVEEEDGIRKCKKCDGPCRKVCNGIGIGEFKDTLS
INATNIKHFKYCTAISGDLHILPVAFKGDSFTRTPPLDPRELEILKTVKEITGFLLIQAWPDNWTDLHAF
ENLEIIRGRTKQHGGQFSLAVVGLNITSLGLRSLKEISDGDVVISGNRNL CYANTINWKKLFGTPNQKTKI
MNNRAEKDCKAVNHVCNPLCSSEGCWGPEDRDCVSCQNVSRGRCVEKCNILEGEPREFVENSECIQCHP
ECLPQAMNITCTGRGPDNCIQCAHYIDGPHCVKTCPAGIMGENNTLVWKYADANNVCHLCHANCTYGCAG
PGLQGCEVWPSGYVQWQWILKTFWI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	73.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
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 after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq:	NP_031938
Locus ID:	13649
UniProt ID:	Q9WVF5
RefSeq Size:	2678
Cytogenetics:	11 9.41 cM
RefSeq ORF:	1965
Synonyms:	9030024J15Rik; AI552599; Erbb; Errb1; Errp; wa-2; wa2; Wa5
Summary:	<p>Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses (PubMed:8404850). Known ligands include EGF, TGFA/TGF-alpha, AREG, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin (By similarity). Plays a role in enhancing learning and memory performance (PubMed:20639532).[UniProtKB/Swiss-Prot Function]</p>