

## Product datasheet for TP511403

### Ephb3 (NM\_010143) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse Eph receptor B3 (Ephb3), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211403 representing NM_010143 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAGARPPPGLLPLLAPLLLPLLLPAGCWALEETLMDTKWVTSELAWTSHPESGWEEVSGYDEAMNPIRTY  
QVCNVRESSQNNWLRGTGFIWRREVQRVYVELKFTVRDCNSIPNIPGSCKETFNLFYEADSDVASASSPF  
WMENPYVKVDIAPDESFSRLDAGRVTNKVRSFGPLSKAGFYLAQDQGACMSLISVRAFYKCKASTTAG  
FALFPETLTGAEPTSLVIAPGTCIANAVEVSVPLKLYCNGDGEWMVPGACTCATGHEPAAKESQCRACP  
PGSYKAKQGEPCPCPPNSRTTSPAASICTCHNNFYRADSDSADSACTTVPSPPRGVISNVNETSLILE  
WSEPRDLGGRDDLNYVICKKCRGSSGAGGPATCSRCDNVEFVPRQLGLTERRVHISHLLAHTRYTFEV  
QAVNGVSGKSPLPPRYAAVNITTNQAAPSEVPTLHLHSSSGSLTSLWAPPERPNGVILDYEMKYFEKSK  
GIASTVTSQKNSVQLDGLQPDARYVQVRARTVAGYGQYSHPAEFETTSESGGAQQLQEQLPLIVGSTV  
AGFVFMVVVVIALVCLRKQRHGPDAEYTEKQYIAPGMKVYIDPFTYEDPNEAVREFAKEIDVSCVKI  
EEVIGAGEFGEVCRGRLKLPGRREVFAIKTLKVGYTEQRRDFLSEASIMGQFDHPNIIRLEGVWTKSR  
PVMILTEFMENCALDSFLRLNDGQFTVIQLVGMRLGIAAGMKYLSEMNYVHRDLAARNILVNSNLVCKVS  
DFGLSRFLEDDPSDPTYTSSLGGKIPRWTAPEAIAYRKFTSASDVWSYGIVMWEVMSYGERPYWDMNSQ  
DVINAVEQDYRLPPPMDCPTALHQLMLDCWVRDRNLRPKFSQIVNTLDKLIRNAASLKVTASAPSGMSQP  
LLDRTVPDYTTFTTVGDWLDIAIKMGRYKESFVGAGFASFDLVAQMTAEDLLRIGVTLAGHQKKILCSIQD  
MRLQMNQTLPVQV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	110.1 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



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_034273</a>
<b>Locus ID:</b>	13845
<b>UniProt ID:</b>	<a href="#">P54754</a>
<b>RefSeq Size:</b>	4164
<b>Cytogenetics:</b>	16 B1
<b>RefSeq ORF:</b>	2979
<b>Synonyms:</b>	AW456895; Cek10; Etk2; HEK2; MDK5; Sek4; Tyro6
<b>Summary:</b>	Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Generally has an overlapping and redundant function with EPHB2. Like EPHB2, functions in axon guidance during development regulating for instance the neurons forming the corpus callosum and the anterior commissure, 2 major interhemispheric connections between the temporal lobes of the cerebral cortex. In addition to its role in axon guidance plays also an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and the formation of excitatory synapses. Controls other aspects of development through regulation of cell migration and positioning. This includes angiogenesis, palate development and thymic epithelium development for instance. Forward and reverse signaling through the EFNB2/EPHB3 complex also regulate migration and adhesion of cells that tubularize the urethra and septate the cloaca. Finally, plays an important role in intestinal epithelium differentiation segregating progenitor from differentiated cells in the crypt.[UniProtKB/Swiss-Prot Function]