

## Product datasheet for TP526151

### Epha2 (NM\_010139) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse Eph receptor A2 (Epha2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR226151 representing NM_010139 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MELRAVGFCLALLWGCALAAAAAQQKEVLLDFAAMKGGELGWLTHPYGKGWDLMQNIMDDMPIYMYSVCN VSGDQDNWLRNWNVYREEAERIFIELKFTVRDCNSFPGGASSCKETFNLYAESDVDYGTNFQKRQFTK IDTIAPDEITVSSDFEARNVKLNVEERMVGPLTRKGFYLAQFDIGACVALLSVRVYKKCPPEMLQSLARF PETIAVAVSDTQPLATVAGTCVDHAVVPYGGEGPLMHCTVDGEWLVPIGQCLCQEGYEKVEDACRACSPG FFKSEASESPCLECPEHTLPSTEGATSCQCEEGYFRAPEDPLSMSCTRPPSAPNYLTAIGMGAKVELRWT APKDTGGRQDIVSVTCEQCWPESGECGPCEASVRYSEPPHALTRTSVTSDLEPHMNYTFAVEARNGVS GLVTSRSFRTASVSINQTEPPKVRLEDRSTTSLSVTWSIPVSQQSRVWKYEVTYRKKGDANSYNVRRTEG FSVTLDDLAPDTTYLVQVQALTQEGQGAGSKVHEFQTLSTEGSANMAVIGGVAVGVWLLLVLAGVGLFIH RRRRNLRARQSSDVRFSKSEQLKPLKTYVDPHTYEDPNQAVLKFTTEIHPSCVARQKVIGAGEFGEVYK GTLKASSGKKEIPVAIKTLKAGYTEKQRVDFLSEASIMGQFSHHNIIIRLEGVSKYKPMMIITEYMENGA LDKFLREKDGFEVSVLQLVGMLRGIASGMKYLANMNYVHRDLAARNILVNSNLVCKVSDFGLSRVLEDDPE ATYTTSGGKIPIRWTAPEAISYRKFTSASDVWSYGIVMWEVMTYGERPYWELSNHEVMKAINDFRLPTP MDCPSAIYQLMMQCWQQERSRRPKFADIVSILDKLIRAPDSLKTLADFDPRVSIRLPSTSGSEGVPFRTV SEWLESIKMQYTEHFVAGYTAIEKVVQMSNEDIKRIGVRLPGHQKRIAYSLLGLKQVNTVGIPI  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	109.3 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	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_034269</a>
<b>Locus ID:</b>	13836
<b>UniProt ID:</b>	<a href="#">Q03145</a>
<b>RefSeq Size:</b>	3948
<b>Cytogenetics:</b>	4 73.67 cM
<b>RefSeq ORF:</b>	2931
<b>Synonyms:</b>	AW545284; Eck; Myk2; Sek-2; Sek2
<b>Summary:</b>	Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin-A 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. Activated by the ligand ephrin-A1/EFNA1 regulates migration, integrin-mediated adhesion, proliferation and differentiation of cells (PubMed:29749928). Regulates cell adhesion and differentiation through DSG1/desmoglein-1 and inhibition of the ERK1/ERK2 signaling pathway. May also participate in UV radiation-induced apoptosis and have a ligand-independent stimulatory effect on chemotactic cell migration. During development, may function in distinctive aspects of pattern formation and subsequently in development of several fetal tissues. Involved for instance in angiogenesis, in early hindbrain development and epithelial proliferation and branching morphogenesis during mammary gland development. Engaged by the ligand ephrin-A5/EFNA5 may regulate lens fiber cells shape and interactions and be important for lens transparency development and maintenance. With ephrin-A2/EFNA2 may play a role in bone remodeling through regulation of osteoclastogenesis and osteoblastogenesis.[UniProtKB/Swiss-Prot Function]