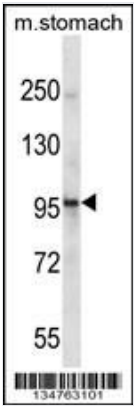
EPHA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Epha1, Polyclonal Antibody
Full Product Name	Epha1, ID (Epha1, Esk, Ephrin type-A receptor 1, Embryonic stem cell kinase, Tyrosine-protein kinase receptor ESK) (FITC)
Product Gene Name	anti-Epha1 antibody
Product Synonym Names	Epha1; Esk; Ephrin type-A receptor 1; Embryonic stem cell kinase; Tyrosine-protein kinase receptor ESK
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	108,578 Da
3D Structure	ModBase 3D Structure for Q60750
Immunogen	Mouse Epha1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 338-366 amino acids from the Central region of Mouse Epha1.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-Epha1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Epha1 antibody	Western Blot (WB), FLISA
Application Notes for anti-Epha1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Epha1 antibody	Receptor for members of the ephrin-A family. Binds with a low affinity to ephrin-A1.
Product References and Citations for anti-Epha1 antibody	Islam, S., et al. Dig. Dis. Sci. 55(9):2478-2488(2010). Zirzow, S., et al. Dev. Biol. 336(2):145-155(2009). North, H.A., et al. Development 136(14):2467-2476(2009). Abdul-Aziz, N.M., et al. Int. J. Dev. Biol. 53(4):559-568(2009). Duffy, S.L., et al. Genesis 46(10):553-561(2008).
Other Notes	Small volumes of anti-Epha1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for Epha1 purchase	MBS6295955 is an antibody targeting Epha1. Also known as Epha1, ID (Epha1, Esk, Ephrin type-A receptor 1, Embryonic stem cell kinase, Tyrosine-protein kinase receptor ESK) (FITC). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Epha1 antibody
Mouse Epha1 Antibody (Center) western blot analysis in mouse stomach tissue lysates (35ug/lane).This demonstrates the Epha1 antibody detected the Epha1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Epha1. It may not necessarily be applicable to this product.

NCBI GI #	31980651
NCBI GeneID	13835
NCBI Accession #	NP_076069.2
UniProt Primary Accession #	Q60750
UniProt Secondary Accession #	Q8CED9; Q9ESJ2
UniProt Related Accession #	Q60750
GenBank Nucleotide #	NM_023580.4
NCBI Official Full Name	ephrin type-A receptor 1
NCBI Official Synonym Full Names	Eph receptor A1
NCBI Official Symbol	Epha1
NCBI Official Synonym Symbols	Eph; Esk; AL033318; 5730453L17Rik
UniProt Protein Name	Ephrin type-A receptor 1
UniProt Synonym Protein Names	Embryonic stem cell kinase; Tyrosine-protein kinase receptor ESK
Protein Family	Ephrin type-A receptor
UniProt Gene Name	Epha1
UniProt Synonym Gene Names	Esk; mEpha1
UniProt Entry Name	EPHA1_MOUSE
NCBI Protein Information	ephrin type-A receptor 1; mEpha1; embryonic stem cell kinase; tyrosine-protein kinase receptor ESK

UniProt Comments for Epha1	EphA1: a receptor tyrosine kinase. Receptor for members of the ephrin-A family. Binds with a low affinity to ephrin-A1. The Eph receptor tyrosine kinase family, the largest in the tyrosine kinase group, has fourteen members. They bind membrane-anchored ligands, ephrins, at sites of cell-cell contact, regulating the repulsion and adhesion of cells that underlie the establishment, maintenance, and remodeling of patterns of cellular organization. Eph signals are particularly important in regulating cell adhesion and cell migration during development, axon guidance, homeostasis and disease. EphA receptors bind to GPI-anchored ephrin-A ligands, while EphB receptors bind to ephrin-B proteins that have a transmembrane and cytoplasmic domain. Interactions between EphB receptor kinases and ephrin-B proteins transduce signals bidirectionally, signaling to both interacting cell types. Eph receptors and ephrins also regulate the adhesion of endothelial cells and are required for the remodeling of blood vessels. Misexpressed in several cancers, including upregulation in head and neck cancer, and downregulation in invasive breast cancer cell lines and glioblastoma Protein type: Protein kinase, TK; Protein kinase, tyrosine (receptor); Membrane protein, integral; Kinase, protein; EC 2.7.10.1; TK group; Eph family Cellular Component: membrane; integral to plasma membrane; integral to membrane; plasma membrane Molecular Function: transferase activity; transmembrane-ephrin receptor activity; protein-tyrosine kinase activity; transferase activity, transferring phosphorus-containing groups; ephrin receptor activity; nucleotide binding; kinase activity; transmembrane receptor protein tyrosine kinase activity; protein kinase binding; ATP binding; protein kinase activity Biological Process: peptidyl-tyrosine phosphorylation; protein amino acid autophosphorylation; protein amino acid phosphorylation; positive regulation of angiogenesis; cell surface receptor linked signal transduction; positive regulation of cell proliferation; positive regulation of stress fiber formation; ephrin receptor signaling pathway; negative regulation of protein kinase activity; angiogenesis; positive regulation of cell-matrix adhesion; cell adhesion; phosphorylation; negative regulation of cell migration; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of cell migration
Research Articles on Epha1	**1.** These results highlight the complex role of Eph:ephrin signaling in the development of the sensory-motor circuit innervating the limb.
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