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(Mouse) Epha1 Blocking Peptide (Center)

Synthetic peptide
Catalog # BP21159a

Specification

(Mouse) Epha1 Blocking Peptide (Center) - Product Information

Primary Accession Q60750

(Mouse) Epha1 Blocking Peptide (Center) - Additional Information

Gene ID 13835

Other Names
Ephrin type-A receptor 1, mEpha1, Embryonic stem cell kinase, Tyrosine-protein kinase receptor ESK, Epha1, Esk

Target/Specificity
The synthetic peptide sequence is selected from aa 453-467 of HUMAN Epha1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

(Mouse) Epha1 Blocking Peptide (Center) - Protein Information

Name Epha1

Synonyms Esk

Function
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. Binds with a low affinity EFNA3 and EFNA4 and with a high affinity to EFNA1 which most probably constitutes its cognate/functional ligand. Upon activation by EFNA1 induces cell attachment to the extracellular matrix inhibiting cell spreading and motility through regulation of ILK and downstream RHOA and RAC. Also plays a role in angiogenesis and regulates cell proliferation. May play a role in apoptosis.

Cellular Location
Cell membrane; Single-pass type I membrane protein

Tissue Location
Preferentially expressed in epithelial cells including skin, kidney, liver and thymus (PubMed:11519828, PubMed:18802966). Expressed in myogenic progenitor cells (PubMed:27446912).

(Mouse) Epha1 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

(Mouse) Epha1 Blocking Peptide (Center) - Images

(Mouse) Epha1 Blocking Peptide (Center) - Background

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(Mouse) Epha1 Blocking Peptide (Center) - References

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Carninci P.,et al.Science 309:1559-1563(2005).
Lickliter J.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 93:145-150(1996).
Duffy S.L.,et al.Genesis 46:553-561(2008).