10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Epha7 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP16105a

Specification

Mouse Epha7 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q61772

Mouse Epha7 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 13841

Other Names
Ephrin type-A receptor 7, Developmental kinase 1, mDK-1, EPH homology kinase 3, EHK-3, Embryonic brain kinase, EBK, Epha7, Ebk, Ehk3, Mdk1

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 Epha7 Antibody (N-term) Blocking Peptide - Protein Information

Name Epha7

Synonyms Ebk, Ehk3, Mdk1

Function
Receptor tyrosine kinase which binds promiscuously GPI- anchored 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. Among GPI-anchored ephrin-A ligands, EFNA5 is a cognate/functional ligand for EPHA7 and their interaction regulates brain development modulating cell-cell adhesion and repulsion. Has a repellent activity on axons and is for instance involved in the guidance of corticothalamic axons and in the proper topographic mapping of retinal axons to the colliculus. May also regulate brain development through a caspase(CASP3)-dependent proapoptotic activity. Forward signaling may result in activation of components of the ERK signaling pathway including MAP2K1, MAP2K2, MAPK1 and MAPK3 which are phosphorylated upon activation of EPHA7. Isoform 4 which lacks the kinase domain may regulate isoform 1 adhesive properties.

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

Tissue Location
Widely expressed in embryo. In adult, expression restricted to hippocampus, testis and spleen. Expressed in myogenic progenitor cells (PubMed:27446912).

Mouse Epha7 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Mouse Epha7 Antibody (N-term) Blocking Peptide - Images

Mouse Epha7 Antibody (N-term) Blocking Peptide - Background

Receptor for members of the ephrin-A family. Binds to ephrin-A1, -A2, -A3, -A4 and -A5.