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Mouse Epha7 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16105a

Product Information

Application	WB, E
Primary Accession	Q61772
Other Accession	P54759, Q15375, O42422
Reactivity	Human, Mouse
Predicted	Rat, Chicken, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34765
Calculated MW	111860
Antigen Region	113-140

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
Target/Specificity	This Mouse Epha7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 113-140 amino acids from the N-terminal region of mouse Epha7.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Epha7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

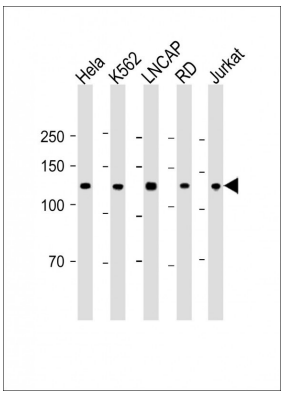
Name	Epha7
Synonyms	Ebk, Ehk3, Mdk1

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).

Background

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

Images



All lanes: Anti-Mouse Epha7 Antibody (N-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: K562 whole cell lysate Lane 3: LNCAP whole cell lysate Lane 4: RD whole cell lysate Lane 5: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 125 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.