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(Mouse) Epha1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21159a

Product Information

Application	WB, E
Primary Accession	Q60750
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB51137
Calculated MW	108578

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	This mouse Epha1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 453-487 amino acids from the Central region of mouse Epha1.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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) Epha1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

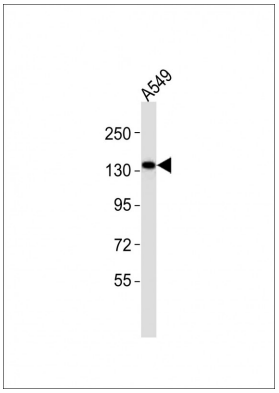
Background

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. Plays also a role in angiogenesis and regulates cell proliferation. May play a role in apoptosis.

References

Coulthard M.G.,et al.Growth Factors 18:303-317(2001).
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).

Images



Anti-(Mouse) Epha1 Antibody (Center) at 1:2000 dilution + A549 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 109 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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