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Mouse Ephb4 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20989c

Specification

Mouse Ephb4 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P54761
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**108848**

Mouse Ephb4 Antibody (C-term) - Additional Information

Gene ID 13846

Other Names
Ephrin type-B receptor 4, Developmental kinase 2, mDK-2, Hepatoma transmembrane kinase, Tyrosine kinase MYK-1, Ephb4, Htk, Mdk2, Myk1

Target/Specificity
This Mouse Ephb4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 967-1000 amino acids from the C-terminal region of mouse Ephb4.

Dilution
WB~~1:1000

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 Ephb4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Ephb4 Antibody (C-term) - Protein Information

Name Ephb4

Synonyms Htk, Mdk2, Myk1

Function Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B 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. Together with its cognate ligand/functional ligand EFNB2 it is involved in the regulation of cell adhesion and migration, and plays a central role in heart morphogenesis, angiogenesis and blood vessel remodeling and permeability. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells.

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P54760}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P54760}

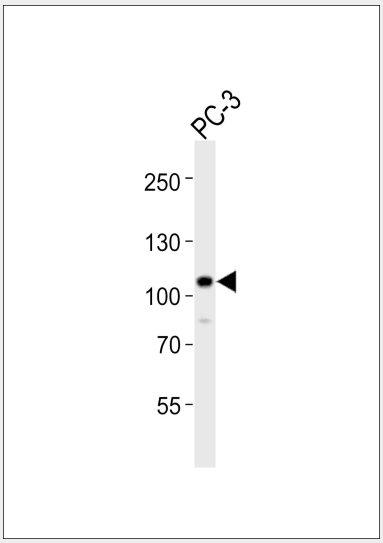
Tissue Location
Expressed in various organ systems, including lung, liver, kidney, intestine, muscle and heart (PubMed:7478528). Expressed in myogenic progenitor cells (PubMed:27446912)

Mouse Ephb4 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Ephb4 Antibody (C-term) - Images



Western blot analysis of lysate from PC-3 cell line, using Mouse Ephb4 Antibody (C-term)(Cat. #AP20989c). AP20989c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

Mouse Ephb4 Antibody (C-term) - Background

Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B 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. Together with its cognate ligand/functional ligand EFNB2 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4- mediated forward signaling controls cellular repulsion and segregation form EFNB2-expressing cells. Plays also a role in postnatal blood vessel remodeling, morphogenesis and permeability and is thus important in the context of tumor angiogenesis.

Mouse Ephb4 Antibody (C-term) - References

Ciossek T.,et al.Oncogene 11:2085-2095(1995).
Andres A.-C.,et al.Oncogene 9:1461-1467(1994).
Wilson M.D.,et al.Nucleic Acids Res. 29:1352-1365(2001).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Gerety S.S.,et al.Mol. Cell 4:403-414(1999).