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Unc5b (mouse, rat) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3843a

Specification

Unc5b (mouse, rat) Antibody (internal region) - Product Information

Application	**E**
Primary Accession	Q8IZJ1
Other Accession	NP_084046.2, 219699, 107449 (mouse), 60630 (rat)
Predicted	**Human, Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**103638**

Unc5b (mouse, rat) Antibody (internal region) - Additional Information

Gene ID 219699

Other Names
Netrin receptor UNC5B, Protein unc-5 homolog 2, Protein unc-5 homolog B, p53-regulated receptor for death and life protein 1, UNC5B, P53RDL1, UNC5H2

Dilution
E~~N/A

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Unc5b (mouse, rat) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Unc5b (mouse, rat) Antibody (internal region) - Protein Information

Name UNC5B

Function
Receptor for netrin required for axon guidance. Mediates axon repulsion of neuronal growth cones in the developing nervous system upon ligand binding. Axon repulsion in growth cones may be caused by its association with DCC that may trigger signaling for repulsion (By similarity).

Functions as a netrin receptor that negatively regulates vascular branching during angiogenesis. Mediates retraction of tip cell filopodia on endothelial growth cones in response to netrin (By similarity). It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand (PubMed:12598906). Mediates apoptosis by activating DAPK1. In the absence of NTN1, activates DAPK1 by reducing its autoinhibitory phosphorylation at Ser-308 thereby increasing its catalytic activity (By similarity).

Cellular Location
Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:O08722} Membrane raft {ECO:0000250|UniProtKB:O08722}. Note=Associated with lipid rafts. {ECO:0000250|UniProtKB:O08722}

Tissue Location
Highly expressed in brain. Also expressed at lower level in developing lung, cartilage, kidney and hematopoietic and immune tissues.

Unc5b (mouse, rat) Antibody (internal region) - 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

Unc5b (mouse, rat) Antibody (internal region) - Images

Unc5b (mouse, rat) Antibody (internal region) - Background

This antibody is expected to recognize the cytoplasmic domain of the protein.

Unc5b (mouse, rat) Antibody (internal region) - References

Robo4 maintains vessel integrity and inhibits angiogenesis by interacting with UNC5B. Koch AW, Mathivet T, Larrivée B, Tong RK, Kowalski J, Pibouin-Fragner L, Bouvrée K, Stawicki S, Nicholes K, Rathore N, Scales SJ, Luis E, del Toro R, Freitas C, Bréant C, Michaud A, Corvol P, Thomas JL, Wu Y, Peale F, Watts RJ, Tessier-Lavigne M, Bagri A, Dev Cell. 2011 Jan 18;20(1):33-46. PMID: 21238923