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Anti-MYO1D Antibody
Catalog # AP53856

Specification

Anti-MYO1D Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O94832
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**116202**

Anti-MYO1D Antibody - Additional Information

Gene ID 4642

Other Names
KIAA0727; Unconventional myosin-Id

Target/Specificity
KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human MYO1D. The exact sequence is proprietary.

Dilution
WB~~1/500 - 1/1000
IHC~~1:100~500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-MYO1D Antibody - Protein Information

Name MYO1D

Synonyms KIAA0727

Function
Unconventional myosin that functions as actin-based motor protein with ATPase activity (By similarity). Plays a role in endosomal protein trafficking, and especially in the transfer of cargo proteins from early to recycling endosomes (By similarity). Required for normal planar cell polarity in ciliated tracheal cells, for normal rotational polarity of cilia, and for coordinated, unidirectional ciliary movement in the trachea. Required for normal, polarized cilia organization in brain ependymal epithelial cells (By similarity).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q63357}. Perikaryon {ECO:0000250|UniProtKB:Q63357}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q63357}. Early endosome {ECO:0000250|UniProtKB:F1PRN2}. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q63357}. Note=Colocalizes with the actin cytoskeleton in the cell cortex close to the apical cell membrane Colocalizes with cytoplasmic puncta that are reminiscent of transport vesicles. {ECO:0000250|UniProtKB:Q63357}

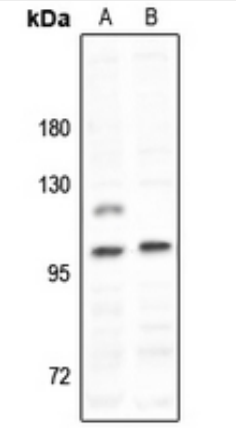
Tissue Location
Expressed in many tissues. Highest levels in brain, followed by lung and ovary; expression is lowest in spleen

Anti-MYO1D Antibody - 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

Anti-MYO1D Antibody - Images



Western blot analysis of MYO1D expression in rat brain (A), A2780 (B) whole cell lysates.

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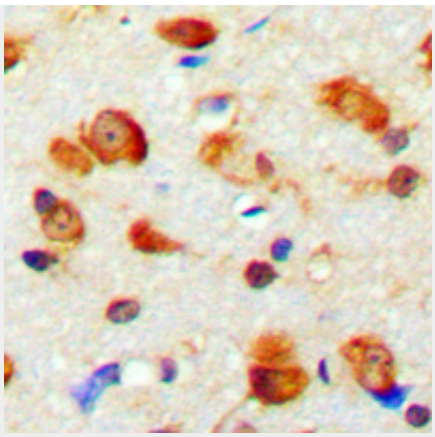

Immunohistochemical analysis of MYO1D staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-MYO1D Antibody - Background

Rabbit polyclonal antibody to MYO1D