

# Anti-MYO1D Antibody

Catalog # AP53856

## Product Information

---

Application	WB
Primary Accession	<a href="#">O94832</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	116202

## Additional Information

---

Gene ID	4642
Other Names	KIAA0727; Unconventional myosin-Id
Target/Specificity	Recognizes endogenous levels of MYO1D protein.
Dilution	WB~~1/500 - 1/1000
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

## 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.

## Tissue Location

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

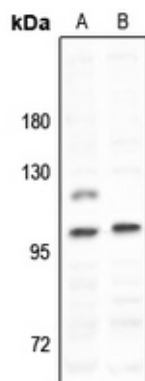
## Background

---

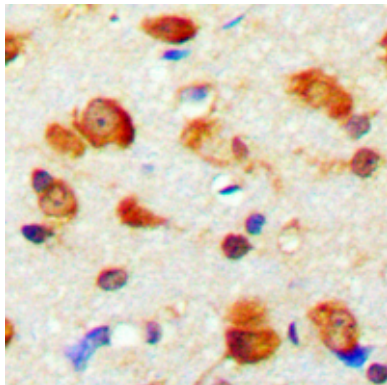
Rabbit polyclonal antibody to MYO1D

## Images

---



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



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.

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