

MYO16 Rabbit pAb

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Catalog # AP57419

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9Y6X6
Reactivity	Rat, Mouse
Predicted	Human, Zebrafish, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	206129
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MYO16
Epitope Specificity	1251-1350/1858
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Found in puncta in soma and processes of astrocytes and dissociated cerebellar cells with the morphology of migrating granule cells.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Myosin XVI is a 1,858 amino acid protein that localizes to the cytoplasm and contains one IQ domain, two myosin head-like domains and seven ANK repeats. Existing as an unconventional Myosin, Myosin XVI is involved in intracellular movements related to Actin filaments and is thought to interact specifically with PP1 alpha and PP1 gamma, possibly playing a role in PP1-associated brain development. Multiple isoforms of Myosin XVI exist due to alternative splicing events.

Additional Information

Gene ID	23026
Other Names	Unconventional myosin-XVI, Neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adapter 3, Unconventional myosin-16, MYO16 (HGNC:29822)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

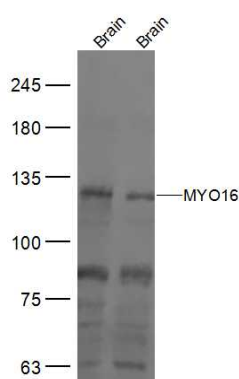
Protein Information

Name	MYO16 (HGNC:29822)
Function	Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails are presumed to bind to membranous compartments, which would be moved relative to actin filaments. May be involved in targeting of the catalytic subunit of protein phosphatase 1 during brain development. Activates PI3K and concomitantly recruits the WAVE1 complex to the close vicinity of PI3K and regulates neuronal morphogenesis (By similarity).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q9ERC1}. Note=Found in puncta in soma and processes of astrocytes and dissociated cerebellar cells with the morphology of migrating granule cells. {ECO:0000250 UniProtKB:Q9ERC1}

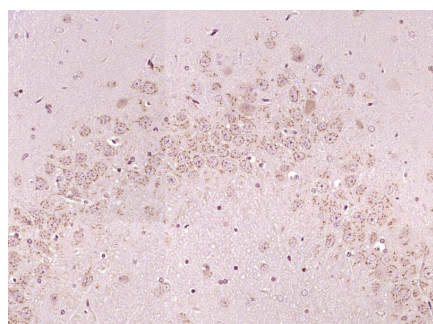
Background

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Images



Sample:
Brain (Mouse) Lysate at 40 ug
Brain (Rat) Lysate at 40 ug
Primary: Anti-MYO16 (AP57419) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 206 kD
Observed band size: 123 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MYO16) Polyclonal Antibody, Unconjugated (AP57419) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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