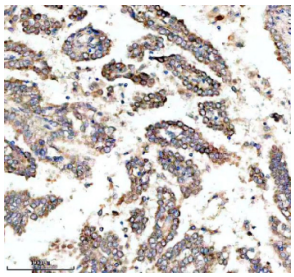
MYO7A Antibody / Unconventional Myosin-VIIa [clone AFCH-13] (RQ8896)

Catalog No.	Formulation	Size
RQ8896	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

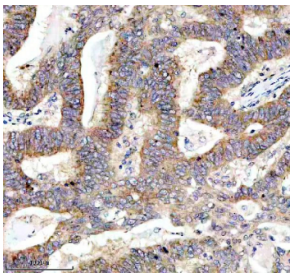
Recombinant RABBIT MONOCLONAL

Bulk quote request

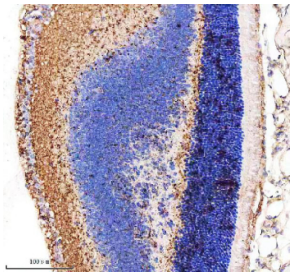
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AFCH-13
Purity	Affinity chromatography
UniProt	Q13402
Localization	Cytoplasm
Applications	Western blot: 1:500 Immunohistochemistry (FFPE): 1:50
Limitations	This MYO7A antibody is available for research use only.



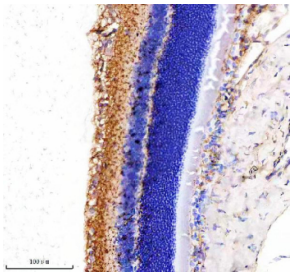
IHC staining of FFPE human lung cancer tissue with MYO7A antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



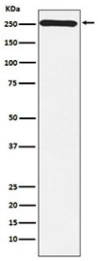
IHC staining of FFPE human stomach cancer tissue with MYO7A antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse eye tissue with MYO7A antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat eye tissue with MYO7A antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human Y79 cell lysate with MYO7A antibody. Predicted molecular weight ~254 kDa.

Description

Unconventional Myosin-VIIa (MYO7A) is an actin-based motor protein involved in intracellular transport and structural organization within sensory cells. It plays a critical role in the function of hair cells in the inner ear and photoreceptor cells in the retina, contributing to mechanosensory and visual processes.

Mutations in MYO7A are associated with hereditary hearing loss, Usher syndrome type 1B, and certain forms of retinitis pigmentosa. MYO7A is essential for maintaining stereocilia structure in cochlear hair cells and for transporting opsin-containing vesicles in retinal cells, highlighting its importance in sensory cell maintenance and signaling.

Using a high-quality MYO7A antibody enables sensitive detection in applications such as western blot, immunohistochemistry, and immunofluorescence. An MYO7A antibody from NSJ Bioreagents provides consistent performance for research into sensory biology, genetic disorders, and intracellular transport mechanisms. Selecting the right MYO7A antibody is essential for achieving accurate and reproducible results.

Application Notes

Optimal dilution of the MYO7A antibody should be determined by the researcher.

Immunogen

A peptide sequence specific to Unconventional Myosin-VIIa was used as the immunogen for the MYO7A antibody.

Storage

After reconstitution, the MYO7A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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