

Villin Ab-1 (Clone CWWB1)

Mouse Monoclonal Antibody

Cat. #MS-1499-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-1499-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Cat. #MS-1499-PCS (5 Slides) (Positive Control for Histology)

Description: Villin can cap, nucleate, sever and bundle actin in a Ca^{2+} and phosphoinositide-regulated manner. It is associated with the microvillar actin core bundle of intestinal and renal brush border implicated in adsorption. Villin is composed of six repeats, each containing 150 residues that together constitute the core domain followed by the carboxyl-terminal headpiece domain of 87 residues. The core domain retains the Ca^{2+} dependent capping nucleating and severing activity, whereas the headpiece domain contributes towards actin filament bundling and binding F-actin, independently of Ca^{2+} .

Mol. Wt. of Antigen: 92.5kDa

Species Reactivity: Human. Others-not known

Clone Designation: CWWB1

Ig Isotype: IgG₁

Immunogen: Human Villin protein

Applications and Suggested Dilutions:

- Immunohistology (formalin/paraffin) (Ab 1:50-1:100 for 30 min at RT)
- * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (NEOMARKERS' Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Small intestine and kidney

Cellular Localization: Cytoplasmic

Supplied As:

200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 15mM sodium azide. . Also available without BSA and azide at 1mg/ml.

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

1. Fath K R, Burgess D R. (1995) Curr. Biol. 5: 591-593.
2. Friederich E, et al. J. Biol. Chem. 274: 26751-26760.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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