Myosin 9 polyclonal antibody

Catalog: BS67775 Host: Rabbit Reactivity: Human, Mouse, Rat

BackGround:

Nonmuscle myosin is an actin-based motor protein essential to cell motility, cell division, migration, adhesion, and polarity. The holoenzyme consists of two identical heavy chains and two sets of light chains. The light chains (MLCs) regulate myosin II activity and stability. The heavy chains (NMHCs) are encoded by three genes, MYH9, MYH10, and MYH14, which generate three different nonmuscle myosin II isoforms, IIa, IIb, and IIc, respectively. While all three isoforms perform the same enzymatic tasks, binding to and contracting actin filaments coupled to ATP hydrolysis, their cellular functions do not appear to be redundant and they have different subcellular distributions. The carboxy-terminal tail domain of myosin II is important in isoform-specific subcellular localization. Research studies have shown that phosphorylation of myosin IIa at Ser1943 contributes to the regulation of breast cancer cell migration.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 250 kDa

Swiss-Prot:

P35579

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200), IP (1/50 - 1/100)

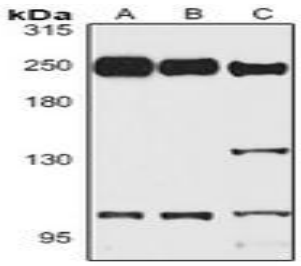
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

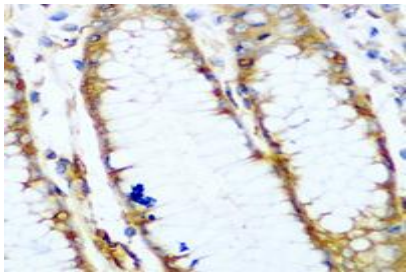
Specificity:

Recognizes endogenous levels of Myosin 9 protein.

DATA:



Western blot analysis of Myosin 9 expression in Jurkat (A), LO2 (B), mouse lung (C) whole cell lysates.



Immunohistochemical analysis of Myosin 9 staining in human stomach 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.

Note:

For research use only, not for use in diagnostic procedure.

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