

12-4020: Human/Mouse Myl9/12 (Clone: F6) rabbit mAb

Clonality :	Monoclonal
Clone Name :	AWBMyI9F6 (F-6)
Application :	Functional Assay,IHC,ELISA
Reactivity :	Human, Mouse
Conjugate :	Unconjugated
Format :	Purified
Alternative Name :	Myosin regulatory light polypeptide 9, 20 kDa myosin light chain, LC20, MLC-2C, Myosin RLC, Myosin regulatory light chain 9, Myosin regulatory light chain MRLC1
Isotype :	Rabbit IgG1k
Immunogen Information :	N-terminal peptide of MyI9

Description

Myosin regulatory light chain (MyI) 9 is a regulatory subunit of the ATPase myosin protein. MyI9 regulates actin rearrangement to direct cellular migration, shape, and adhesion. MyI9 itself is regulated by post-translational modifications, including phosphorylation, acetylation and methylation. Phosphorylation of MyI9 at Thr18 and Ser19 promotes myosin ATPase activity and interaction with actin. N alpha-acetylation of MyI9 has been shown to increase Ser19 phosphorylation and cytoplasmic activity, while N alpha-methylation promotes DNA binding in the nucleus. MyI9, MyI12a, and MyI12b (MyI9/12) have been identified as functional ligands for CD69 in inflamed lungs, playing a major role in chronic inflammatory disorders such as chronic rhinosinusitis. Homozygous deletion in the MYL9 gene in humans has been identified as a putative molecular basis of the disease megacystis-microcolon-intestinal hypoperistalsis (MMIHS) syndrome, especially considering MyI9's role in contracting smooth muscle cell.

Product Info

Amount :	100 µg
Content :	1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1 µg/mL - 0.001 µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

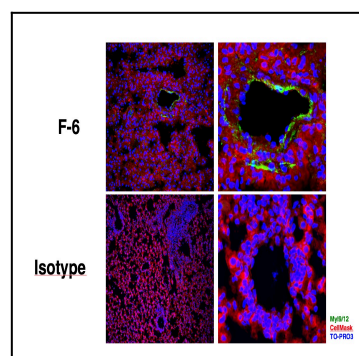


Fig-1: Anti-human/mouse MyI9/12 antibody AWBMyI9F6 shows strong and specific tissue staining by immunohistochemistry.