Human/Mouse Myl9/12 (F6) rabbit mAb

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Catalog: #1151 **Store at:** -20ºC

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Functional Assay,IHC,ELISA	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Antibody may react with the same target protein from other species sharing the same sequence.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

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

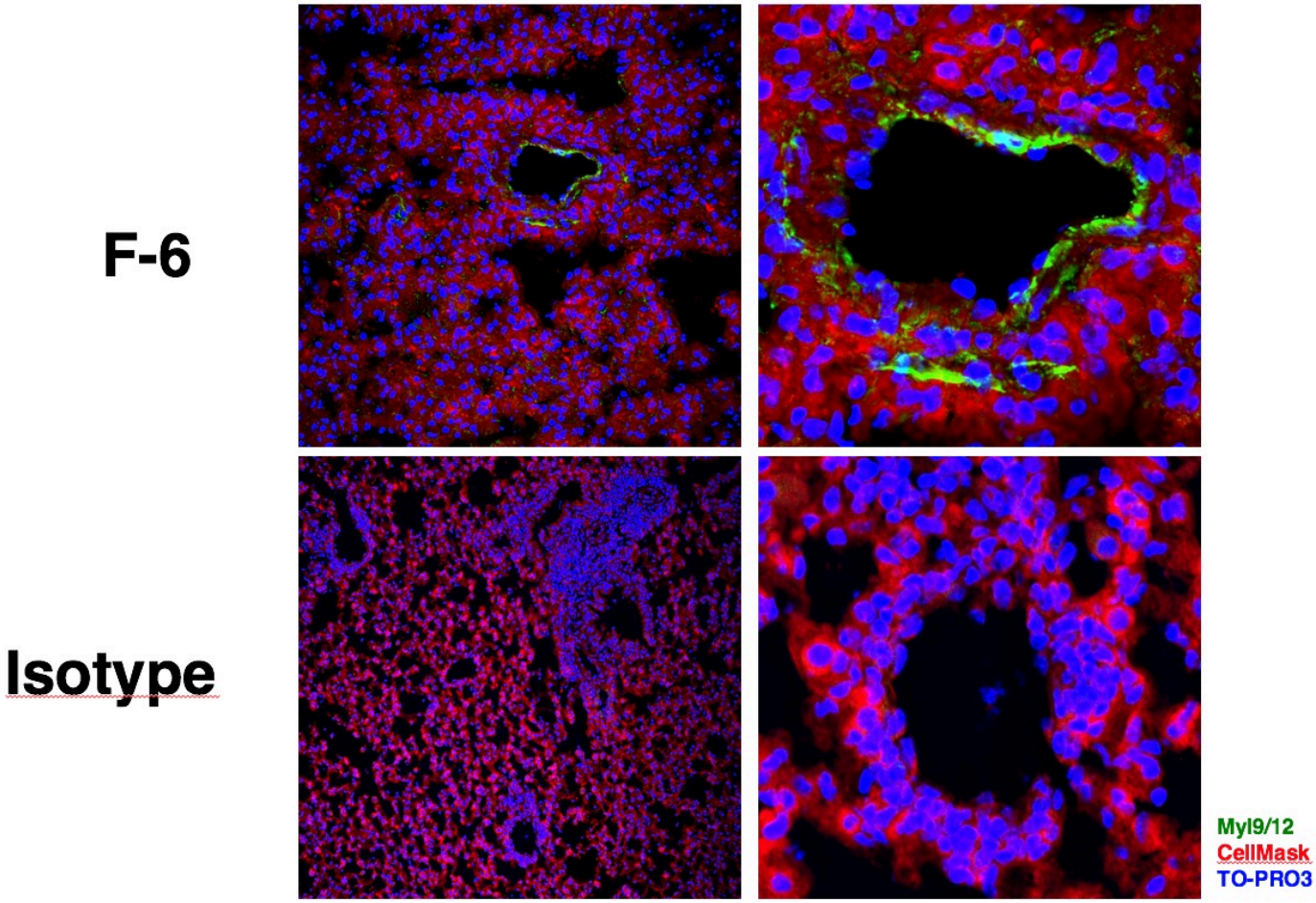
Immunogen: N-terminal peptide of Myl9

Description: Myosin regulatory light chain (Myl) 9 is a regulatory subunit of the ATPase myosin protein. Myl9 regulates actin rearrangement to direct cellular migration, shape, and adhesion. Myl9 itself is regulated by post-translational modifications, including phosphorylation, acetylation and methylation. Phosphorylation of Myl9 at Thr18 and Ser19 promotes myosin ATPase activity and interaction with actin. Nα-acetylation of Myl9 has been shown to increase Ser19 phosphorylation and cytoplasmic activity, while Nα-methylation promotes DNA binding in the nucleus. Myl9, Myl12a, and Myl12b (Myl9/12) 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 Myl9's role in contracting smooth muscle cell.

References:

Hayashizaki K, Kimura M, Tokoyoda K, et al. (2016) Science Immunology. 1: eaaf9154.
Nevitt C, Tooley JG, and Tooley CES. (2018) Biochemical Journal. 475:3201-3219.
Morena CA, Sobreira N, Pugh E, Zhang P, Steel G, Torres FR, and Cavalcanti DP. (2017) European Journal of Human Genetics. 26:669-675.

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Anti-human/mouse Myl9/12 Abwiz antibody AWBMyl9F6 (Cat. #1151) shows strong and specific tissue staining by immunohistochemistry.

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