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Images



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Quantity:	100 μL	
Target:	MYLK3	
Reactivity:	Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This MYLK3 antibody is un-conjugated	
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF)	

Product Details

Immunogen:	Recombinant protein corresponding to Mouse MYLK3/MLCK	
Cross-Reactivity:	Rat	
Purification:	Affinity purification	

Target Details

Target:	MYLK3	
Alternative Name:	MYLK3/MLCK (MYLK3 Products)	
Background:	The Ca2+/calmodulin-dependent protein kinases (CaM kinases) are a structurally related subfamily of serine/threonine kinases that includes CaMKI, CaMKII, CaMKIV and Myosin light chain kinases (MYLKs, also designated MLCKs). The MYLK kinases phosphorylate Myosin regulatory light chains to catalyze Myosin interaction with Actin filaments, resulting in contractile activity. MYLK3 (Myosin light chain kinase 3) is a 795 amino acid cardiac-specific	

Target Details

protein that contains one protein kinase domain and belongs to the protein kinase superfamily. Like other MYLK kinases, MYLK3 is thought to play a role in smooth muscle contraction, specifically using magnesium as a cofactor to catalyze the ATP-dependent phosphorylation of Myosin light chain proteins. Additionally, MYLK3 may regulate sarcomere assembly in heart tissue, possibly mediating proper heart function.

Gene ID: 213435

NCBI Accession: NP_001284541

UniProt: Q3UIZ8

Pathways: Regulation of Muscle Cell Differentiation

Application Details

Application Notes: IHC/IF (M,R) 1:600-1:1200

Restrictions: For Research Use only

Handling

Format:

Buffer:

PBS, pH 7.4, 0.02 % sodium azide

Preservative:

Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Mouse heart

130 kDa-



95 kDa-

72 kDa-



Western Blotting

Image 1. Western blot analysis of MYLK3 (ABIN7074736) at dilution of 1: 800

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry analysis of paraffinembedded mouse heart using,MYLK3 (ABIN7074736) at dilution of 1: 1200