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Datasheet for ABIN1405114 **anti-MYLK3 antibody (Alexa Fluor 488)**

Overview

Quantity:	100 µL
Target:	MYLK3
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MYLK3 antibody is conjugated to Alexa Fluor 488
Application:	Western Blotting (WB)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human MYLK3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	MYLK3
Alternative Name:	MYLK3 (MYLK3 Products)
Background:	<p>Synonyms: caMLCK, Cardiac MyBP C associated Ca/CaM kinase, Cardiac-MyBP-C-associated Ca/CaM kinase, MLC kinase, MLCK, MLCK2, Mylk3, MYLK3_HUMAN, Myosin light chain kinase 3, Putative myosin light chain kinase 3.</p> <p>Background: The Ca²⁺/calmodulin-dependent protein kinases (CaM kinases) are a structurally</p>

Target Details

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 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.

Pathways: [Regulation of Muscle Cell Differentiation](#)

Application Details

Application Notes: IF(IHC-P) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

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

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months