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Datasheet for ABIN7160626

**anti-DMPK antibody (AA 243-424) (HRP)**

## Overview

Quantity:	100 µg
Target:	DMPK
Binding Specificity:	AA 243-424
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DMPK antibody is conjugated to HRP
Application:	ELISA

## Product Details

Immunogen:	Recombinant Human Myotonin-protein kinase protein (243-424AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	DMPK
Alternative Name:	DMPK ( <a href="#">DMPK Products</a> )
Background:	Background: Non-receptor serine/threonine protein kinase which is necessary for the maintenance of skeletal muscle structure and function. May play a role in myocyte

## Target Details

differentiation and survival by regulating the integrity of the nuclear envelope and the expression of muscle-specific genes. May also phosphorylate PPP1R12A and inhibit the myosin phosphatase activity to regulate myosin phosphorylation. Also critical to the modulation of cardiac contractility and to the maintenance of proper cardiac conduction activity probably through the regulation of cellular calcium homeostasis. Phosphorylates PLN, a regulator of calcium pumps and may regulate sarcoplasmic reticulum calcium uptake in myocytes. May also phosphorylate FXD1/PLM which is able to induce chloride currents. May also play a role in synaptic plasticity.

Aliases: DM 1 antibody, DM antibody, DM kinase antibody, DM protein kinase antibody, DM-kinase antibody, DM1 antibody, DM1 protein kinase antibody, DM1PK antibody, DMK antibody, DMPK antibody, DMPK\_HUMAN antibody, Dystrophia myotonica 1 antibody, Dystrophia myotonica protein kinase antibody, MDPK antibody, MT PK antibody, MT-PK antibody, Myotonic dystrophy associated protein kinase antibody, Myotonic dystrophy protein kinase antibody, Myotonin protein kinase A antibody, Myotonin protein kinase antibody, Myotonin-protein kinase antibody, Thymopoietin homolog antibody

UniProt: [Q09013](#)

Pathways: [Regulation of Muscle Cell Differentiation](#), [Synaptic Membrane](#), [Skeletal Muscle Fiber Development](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

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

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.