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anti-DMPK antibody (N-Term)



Images



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Overview	
Quantity:	100 μL
Target:	DMPK
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DMPK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF)
Product Details	
Immunogen:	A synthesized peptide derived from human DMPK, corresponding to a region within N-terminal amino acids.
Isotype:	IgG
Specificity:	DMPK Antibody detects endogenous levels of total DMPK.
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).
Target Details	
Target:	DMPK
Alternative Name:	DMPK (DMPK Products)

Target Details

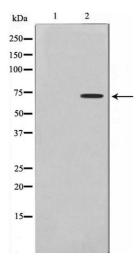
Target Details	
Background:	Description: Non-receptor serine/threonine protein kinase which is necessary for the
	maintenance of skeletal muscle structure and function. May play a role in myocyte
	differentiation and survival by regulating the integrity of the nuclear envelope and the
	expression of 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 FXYD1/PLM which is able to induce chloride currents. May
	also play a role in synaptic plasticity.
	Gene: DMPK
Molecular Weight:	70kDa
Gene ID:	1760
UniProt:	Q09013
Pathways:	Regulation of Muscle Cell Differentiation, Synaptic Membrane, Skeletal Muscle Fiber
	Development
Application Details	
Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration	1 ma/ml

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide 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. Stable for 12 months from date of receipt.

Expiry Date:

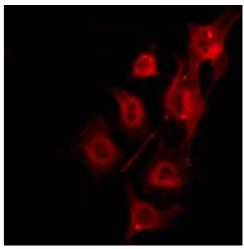
12 months

Images



Western Blotting

Image 1. Western blot analysis on Jurkat cell lysate using DMPK Antibody, The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 2. ABIN6266877 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.