

## DMPK Antibody

Catalog No: #33863

Package Size: #33863-1 50ul #33863-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

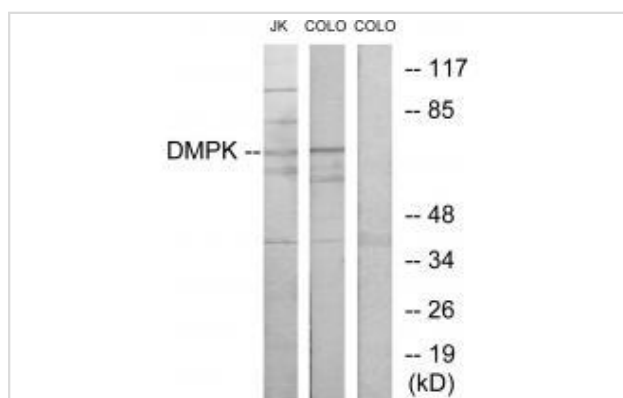
## Description

Product Name	DMPK Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total DMPK protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from N-terminal of human DMPK.
Target Name	DMPK
Other Names	Myotonin-protein kinase; EC 2.7.11.1; Myotonic dystrophy protein kinase; EC 2.7.11.1; Myotonic dystrophy protein kinase
Accession No.	Swiss-Prot: Q09013NCBI Gene ID: 1760
Uniprot	Q09013
GeneID	1760;
SDS-PAGE MW	70kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: 1:500~1:3000

## Images



Western blot analysis of extracts from Jurkat cells and COLO205 cells, using DMPK antibody #33863.

## 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 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.

Fu Y.-H., Science 255:1256-1258(1992).

Shaw D.J., Genomics 18:673-679(1993).

Sasagawa N., FEBS Lett. 351:22-26(1994).

---

Note: This product is for in vitro research use only