

Mouse Myotonin-protein kinase (DMPK) ELISA Kit

Catalog No: #EK10586



Package Size: #EK10586-1 48T #EK10586-2 96T

Orders: order@signalwayantibody.com

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Description

Product Name	Mouse Myotonin-protein kinase (DMPK) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DM; DM1; DM1PK; DMK; MDPK; MT-PK; DM protein kinase myotonic dystrophy associated protein kinase myotonic dystrophy protein kinase myotonin protein kinase A thymopoietin homolog
Accession No.	P54265
Uniprot	P54265
GeneID	13400;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate DMPK in samples. An antibody specific for DMPK has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDMPK present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DMPK is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of DMPK bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Myotonic dystrophy protein kinase is a serine-threonine kinase that is closely related to other kinases that interact with members of the Rho family of small GTPases. Substrates for this enzyme include myogenin, the beta-subunit of the L-type calcium channels, and phospholemman. The 3' untranslated region of this gene contains 5-37 copies of a CTG trinucleotide repeat. Expansion of this unstable motif to 50-5,000 copies causes myotonic dystrophy type I, which increases in severity with increasing repeat element copy number. Repeat expansion is associated with condensation of local chromatin structure that disrupts the expression of genes in this region. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.

Note: This product is for in vitro research use only