

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DMPK in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 713931
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DMPK Glu393-Thr543 Accession # Q09013
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DMPK (dystrophia myotonica protein kinase), also called DMK, MDPK or MT-PK (myotonin protein kinase) is an 80 kDa cytoplasmic protein of the ser/thr kinase superfamily (EC 2.7.11.1). The 639 amino acid (aa) human DMPK includes a protein kinase domain (aa 81-349), an AGC kinase C-terminal domain (aa 350-425) and a coiled-coil negative regulatory domain that mediates dimerization (aa 467-546). Within the region used as an immunogen, human DMPK shares 72% and 73% aa sequence identity with mouse and rat DMPK, respectively. This region is included within 12 isoforms that range in size from 530-634 aa. The most prominent, muscle-specific isoform phosphorylates phospholamban and is critical for cardiac contractility.

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