Human DMPK Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 713931

Catalog Number: FAB6967R

100 µg

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	*E. coli*-derived recombinant human DMPK Glu393-Thr543 Accession # Q09013
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475