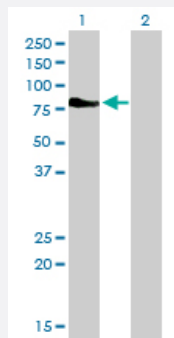


DMPK monoclonal antibody (M01), clone 2F7

Catalog # H00001760-M01

Size 100 ug

Applications

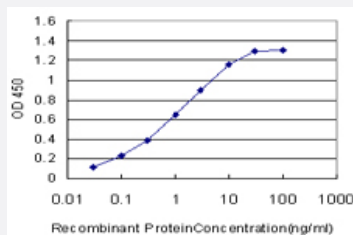


Western Blot (Transfected lysate)

Western Blot analysis of DMPK expression in transfected 293T cell line by DMPK monoclonal antibody (M01), clone 2F7.

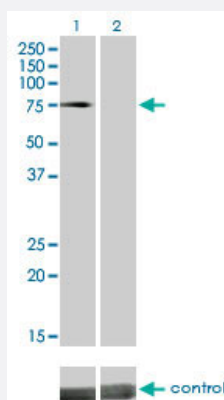
Lane 1: DMPK transfected lysate (69.4 kDa).

Lane 2: Non-transfected lysate.



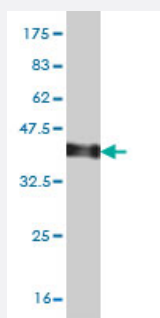
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DMPK is approximately 0.03 ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of DMPK over-expressed 293 cell line, cotransfected with DMPK Validated Chimera RNAi (Cat # H00001760-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with DMPK monoclonal antibody (M01) clone 2F7 (Cat # H00001760-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (39.09 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant DMPK.
Immunogen	DMPK (AAH62553, 303 a.a. ~ 420 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	DEGVPEEARDFIQRLLCPPETRLGRGGAGDFRTHPFFGLDWDGLRDSVPPFTPDEFEGATDTCN FDLVEDGLTAMVSGGGETLSDIREGAPLGVHLPFVGYSYSCMALRDSEVPGPTP
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (39.09 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of DMPK expression in transfected 293T cell line by DMPK monoclonal antibody (M01), clone 2F7.

Lane 1: DMPK transfected lysate(69.4 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DMPK is approximately 0.03ng/ml as a capture antibody.

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- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of DMPK over-expressed 293 cell line, cotransfected with DMPK Validated Chimera RNAi (Cat # H00001760-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with DMPK monoclonal antibody (M01) clone 2F7 (Cat # H00001760-M01). GAPDH (36.1 kDa) used as specificity and loading control.

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Gene Info — DMPK

Entrez GeneID [1760](#)

GeneBank Accession# [BC062553](#)

Protein Accession# [AAH62553](#)

Gene Name DMPK

Gene Alias DM, DM1, DM1PK, DMK, MDPK, MT-PK

Gene Description dystrophin myotonic-protein kinase

Omim ID [160900 605377](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene 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. [provided by RefSeq]

Other Designations

DM protein kinase|dystrophin myotonic 1|myotonic dystrophy associated protein kinase|myotonic dystrophy protein kinase|myotonic protein kinase A|thymopoietin homolog

Disease

- [Arrhythmia](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Cataract](#)
- [Chromosome Disorders](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Fragile X syndrome](#)
- [Friedreich Ataxia](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Muscular Atrophy](#)
- [Myotonic dystrophy](#)
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