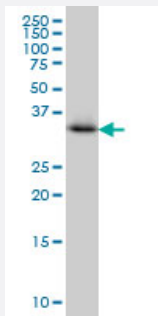


CRYM monoclonal antibody (M03), clone 6B3

Catalog # H00001428-M03

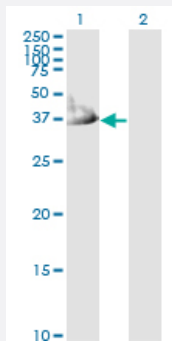
Size 100 ug

Applications



Western Blot (Cell lysate)

CRYM monoclonal antibody (M03), clone 6B3 Western Blot analysis of CRYM expression in Jurkat (Cat # L017V1).

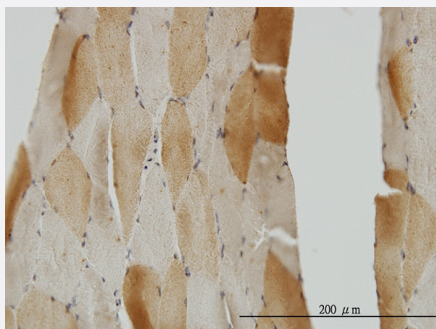


Western Blot (Transfected lysate)

Western Blot analysis of CRYM expression in transfected 293T cell line by CRYM monoclonal antibody (M03), clone 6B3.

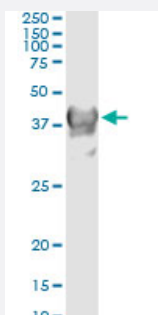
Lane 1: CRYM transfected lysate(33.8 KDa).

Lane 2: Non-transfected lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CRYM on formalin-fixed paraffin-embedded human skeletal muscle. [antibody concentration 3 ug/ml]

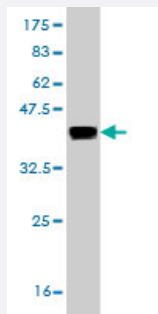
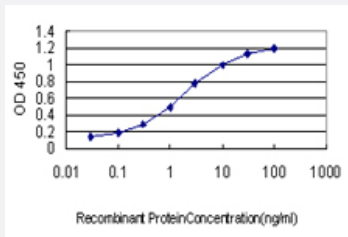


Immunoprecipitation

Immunoprecipitation of CRYM transfected lysate using anti-CRYM monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with CRYM MaxPab rabbit polyclonal antibody.

Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CRYM.
Immunogen	CRYM (NP_001879, 215 a.a. ~ 314 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	EWVKPGAHINAVGASRPDWRELDDELMKEAVLYVDSQEAALKESGDVLLSGAEIFAELGEVIKGVKPAHCEKTTVFKSLGMAVEDTVAAKLIYDSWSSGK
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 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 (Cell lysate)

CRYM monoclonal antibody (M03), clone 6B3 Western Blot analysis of CRYM expression in Jurkat (Cat # L017V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of CRYM expression in transfected 293T cell line by CRYM monoclonal antibody (M03), clone 6B3.

Lane 1: CRYM transfected lysate(33.8 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to CRYM on formalin-fixed paraffin-embedded human skeletal muscle. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of CRYM transfected lysate using anti-CRYM monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with CRYM MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

Gene Info — CRYM

Entrez GeneID [1428](#)

GeneBank Accession# [NM_001888](#)

Protein Accession# [NP_001879](#)

Gene Name	CRYM
Gene Alias	DFNA40, THBP
Gene Description	crystallin, mu
Omim ID	123740
Gene Ontology	Hyperlink
Gene Summary	Crystallins are separated into two classes: taxon-specific and ubiquitous. The former class is also called phylogenetically-restricted crystallins. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. This gene encodes a taxon-specific crystallin protein that binds NADPH and has sequence similarity to bacterial ornithine cyclodeaminases. The encoded protein does not perform a structural role in lens tissue, and instead it binds thyroid hormone for possible regulatory or developmental roles. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]
Other Designations	NADP-regulated thyroid-hormone binding protein OTTHUMP00000115878

Publication Reference

- [Prognostic Relevance of Thyroid-Hormone-Associated Proteins in Adenoid Cystic Carcinoma of the Head and Neck.](#)

Julia Schnoell, Ulana Kotowski, Bernhard J Jank, Stefan Stoiber, Elisabeth Gurnhofer, Michaela Schleder, Gregor Heiduschka, Lukas Kenner, Lorenz Kadletz-Wanke.

Journal of Personalized Medicine 2021 Dec; 11(12):1352.

Application: IHC, Human, Human tumor

- [μ-Crystallin Is Associated with Disease Outcome in Head and Neck Squamous Cell Carcinoma.](#)

Bernhard J Jank, Markus Haas, Julia Schnoell, Michaela Schleder, Gregor Heiduschka, Lukas Kenner, Lorenz Kadletz-Wanke.

Journal of Personalized Medicine 2021 Dec; 11(12):1330.

Application: IHC-P, Human, Human head and neck squamous cell carcinoma

- [μ-Crystallin in Mouse Skeletal Muscle Promotes a Shift from Glycolytic toward Oxidative Metabolism.](#)

Christian J Kinney, Andrea O'Neill, Kaila Noland, Weiliang Huang, Joaquin Muriel, Valeriy Lukyanenko, Maureen A Kane, Christopher W Ward, Alyssa F Collier, Joseph A Roche, John C McLenithan, Patrick W Reed, Robert J Bloch.

Current Research in Physiology 2021 Feb; 4:47.

Application: IF, Mouse, Mouse muscle

- [Overexpression of the double homeodomain protein DUX4c interferes with myofibrillogenesis and induces clustering of myonuclei.](#)

Vanderplanck C, Tassin A, Anseau E, Charron S, Wauters A, Lancelot C, Vancutsem K, Laoudj-Chenivresse D, Belayew A, Coppee F.

Skeletal Muscle 2018 Jan; 8(1):2.

Application: WB-Ce, Human, FSHD and healthy primary myoblasts

- [The FSHD Atrophic Myotube Phenotype Is Caused by DUX4 Expression.](#)

Vanderplanck C, Anseau E, Charron S, Stricwant N, Tassin A, Laoudj-Chenivresse D, Wilton SD, Coppee F, Belayew A.

PLoS One 2011 Oct; 6(10):e26820.

Application: WB-Tr, Mouse, C2C12 cells

- [Comprehensive expression analysis of FSHD candidate genes at the mRNA and protein level.](#)

Rinse Klooster, Kirsten Straasheijm, Bharati Shah, Janet Sowden, Rune Frants, Charles Thornton, Rabi Tawil, Silvere van der Maarel.

European Journal of Human Genetics 2009 Dec; 17(12):1615.

Application: WB-Ti, Human, Human muscle biopsy samples

- [Proteomic analysis illuminates a novel structural definition of the claustrum and insula.](#)

Mathur BN, Caprioli RM, Deutch AY.

Cerebral Cortex (New York, N.Y. : 1991) 2009 Jan; 19(10):2372.

- [Abnormal expression of mu-crystallin in facioscapulohumeral muscular dystrophy.](#)

Reed PW, Corse AM, Porter NC, Flanigan KM, Bloch RJ.

Experimental Neurology 2007 Mar; 205(2):583.

Application: WB, Human, Human muscle