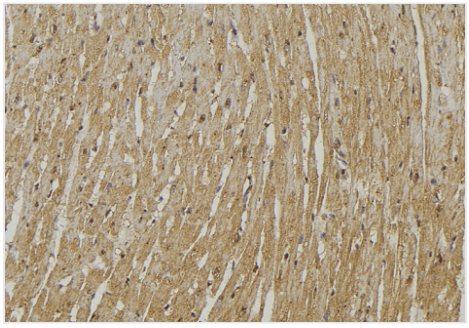
LMOD3 Antibody – Rabbit Polyclonal

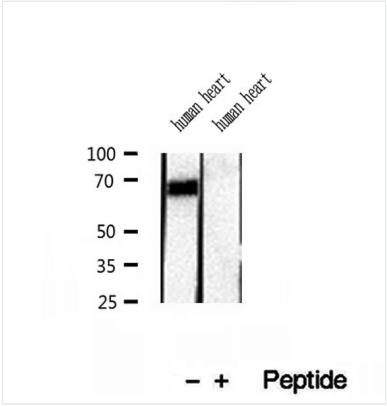
PRODUCT OVERVIEW

Product Name	LMOD3, Polyclonal Antibody
Full Product Name	LMOD3 Antibody
Product Gene Name	anti-LMOD3 antibody
Product Synonym Names	fetal form; Leiomodin; Leiomodin-3; LMOD3; LMOD3_HUMAN
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	LMOD3 antibody detects endogenous levels of LMOD3.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	LMOD3 peptide (MBS9620762) is used for blocking the activity of LMOD3 antibody (MBS9603285)
Molecular Weight	Observed: 65-70 kDa Predicted: 65 kDa
3D Structure	ModBase 3D Structure for Q0VAK6
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human LMOD3.
Subcellular Location	Cytoplasm > Cytoskeleton.
Tissue Specificity	Expressed in cardiac and at higher levels in skeletal muscles (at protein level).
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-LMOD3 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-LMOD3 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-LMOD3 antibody	Function: Essential for the organization of sarcomeric actin thin filaments in skeletal muscle (PubMed:25250574). Increases the rate of actin polymerization (PubMed:25250574). Subunit Structure: May interact with tropomyosin alpha (TPM1/2) N-terminus (PubMed:25250574). Interacts with KLHL40; leading to stabilization (By similarity). Post-translational Modifications: Ubiquitinated, leading to its degradation. Interaction with KLHL40 negatively regulates ubiquitination and degradation. Similarity: Belongs to the tropomodulin family.

Other Notes	Small volumes of anti-LMOD3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LMOD3 purchase	MBS9603285 is an antibody targeting LMOD3. Also known as LMOD3 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-LMOD3 antibody
MBS9603285 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-LMOD3 antibody
Western blot analysis of extracts of human heart tissue, using LMOD3 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LMOD3. It may not necessarily be applicable to this product.

NCBI GI #	749502313
NCBI GeneID	56203
NCBI Accession #	NP_001291347.1
UniProt Primary Accession #	Q0VAK6
UniProt Secondary Accession #	Q0JTT2; Q5JPG6; Q8IUK4; Q96LS4; B4DT85
UniProt Related Accession #	Q0VAK6
GenBank Nucleotide #	NM_001304418.1
NCBI Official Full Name	leiomodin-3
NCBI Official Synonym Full Names	leiomodin 3
NCBI Official Symbol	LMOD3
NCBI Official Synonym Symbols	NEM10
UniProt Protein Name	Leiomodin-3
UniProt Synonym Protein Names	Leiomodin, fetal form
Protein Family	Leiomodin
UniProt Gene Name	LMOD3
NCBI Protein Information	leiomodin-3

NCBI Summary for LMOD3	The protein encoded by this gene is a member of the leiomodin family of proteins. This protein contains three actin-binding domains, a tropomyosin domain, a leucine-rich repeat domain, and a Wiskott-Aldrich syndrome protein homology 2 domain (WH2). Localization of this protein to the pointed ends of thin filaments has been observed, and there is evidence that this protein acts as a catalyst of actin nucleation, and is important to the organization of sarcomeric thin filaments in skeletal muscles. Mutations in this gene have been associated as one cause of Nemaline myopathy, as other genes have also been linked to this disorder. Nemaline myopathy is a disorder characterized by nonprogressive generalized muscle weakness and protein inclusions (nemaline bodies) in skeletal myofibers. Patients with mutations in this gene often present with a severe congenital form of the disorder. [provided by RefSeq, Jan 2015]
UniProt Comments for LMOD3	Essential for the organization of sarcomeric actin thin filaments in skeletal muscle (PubMed:25250574). Increases the rate of actin polymerization (PubMed:25250574).
Research Articles on LMOD3	**1.** LMOD3 mutation is associated with congenital myopathy.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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