

LMOD1 Antibody (Center N201)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8611c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P29536
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20579
Calculated MW	67030
Antigen Region	214-241

Additional Information

Gene ID	25802
Other Names	Leiomodrin-1, 64 kDa autoantigen 1D, 64 kDa autoantigen 1D3, 64 kDa autoantigen D1, Leiomodrin, muscle form, Smooth muscle leiomodrin, SM-Lmod, Thyroid-associated ophthalmopathy autoantigen, LMOD1
Target/Specificity	This LMOD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 214-241 amino acids from the Central region of human LMOD1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LMOD1 Antibody (Center N201) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LMOD1
Function	Required for proper contractility of visceral smooth muscle cells (PubMed: 28292896). Mediates nucleation of actin filaments.

Cellular Location	Cytoplasm, myofibril, sarcomere. Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:A0A0G2K0D3}. Note=Colocalizes with actin filaments in sarcomeres. {ECO:0000250 UniProtKB:A0A0G2K0D3}
Tissue Location	Detected in lung vascular smooth muscle (at protein level) (PubMed:27144530). Detected in thyroid and extraocular smooth muscle, but not skeletal muscle (PubMed:2026759). Detected in heart, aorta, skeletal muscle, colon, urinary bladder, uterus, stomach, and small intestine (PubMed:11318603).

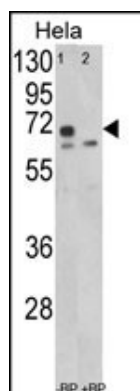
Background

The leiomodlin 1 protein has a putative membrane-spanning region and 2 types of tandemly repeated blocks.

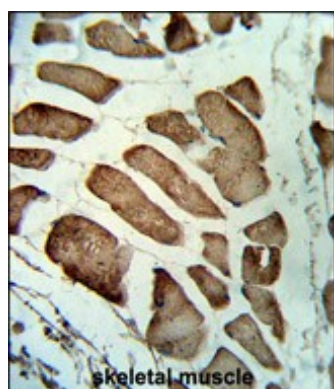
References

Zhang,Z.G., et.al., Clin. Immunol. Immunopathol. 80 (3 PT 1), 236-244 (1996)
 Conley,C.A.et.al., Curr. Eye Res. 19 (4), 313-322 (1999)

Images

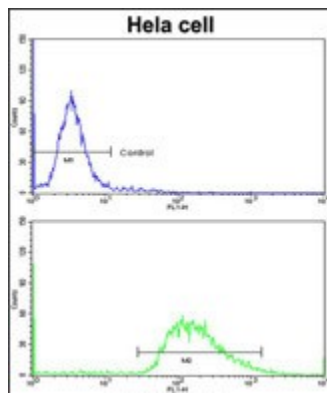


Western blot analysis of LMOD1 Antibody (Center N201) (Cat. #AP8611c) in HeLa cell line lysates (35ug/lane). LMOD1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with LMOD1 Antibody (Center N201), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of hela cells using LMOD1 Antibody (Center N201)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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