

For Research Use Only

# LMOD3 Polyclonal antibody

Catalog Number: 14948-1-AP

Featured Product

18 Publications



## Basic Information

### Catalog Number:

14948-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 387 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6758

### GenBank Accession Number:

BC039202

### GeneID (NCBI):

56203

### UNIPROT ID:

Q0VAK6

### Full Name:

leiomodin 3 (fetal)

### Calculated MW:

65 kDa

### Observed MW:

65-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, zebrafish, xenopus

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: mouse skeletal muscle tissue, mouse heart tissue, rat skeletal muscle tissue

**IP**: mouse skeletal muscle tissue,

**IHC**: human heart tissue, human skeletal muscle tissue

## Background Information

The gene encoding LMOD3 has not been characterized so far and very limited information of its function has been reported. Nanda et al. found that the expression of mouse LMOD3 mRNA is restricted largely to cardiac and skeletal muscle through RT-PCR analysis (PMID: 22157009). Two isoforms of LMOD3 may exist due to the alternative splicing, whose molecular weights are predicted as 65 kDa and 40 kDa, respectively (Uniprot). This antibody was raised against the N-terminal region of human LMOD3. It detects a double bands around 80 kDa and 65 kDa in heart and skeletal muscle lysates. The reason causing the discrepancy between the predicted and observed molecular weight is not clear.

## Notable Publications

Author	Pubmed ID	Journal	Application
Michaela Yuen	25250574	J Clin Invest	WB, IF
Tongbin Wu	29078393	Proc Natl Acad Sci U S A	WB
Christopher T Pappas	26487682	Proc Natl Acad Sci U S A	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

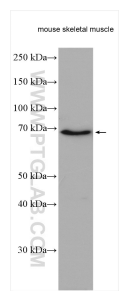
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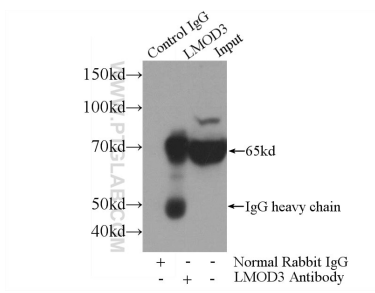
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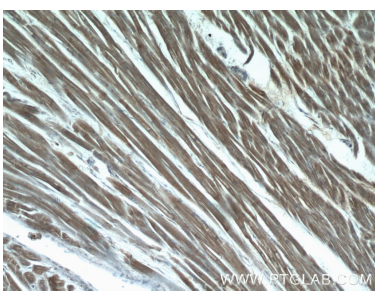
Selected Validation Data



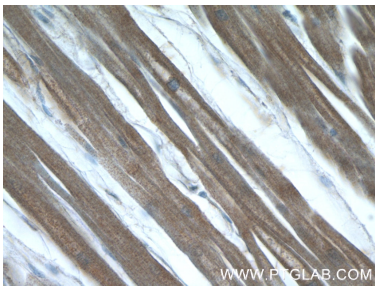
Mouse skeletal muscle lysates were subjected to SDS PAGE followed by western blot with 14948-1-AP (LMOD3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-LMOD3 (IP:14948-1-AP, 4ug; Detection:14948-1-AP 1:700) with mouse skeletal muscle tissue lysate 3600ug.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 14948-1-AP (LMOD3 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 14948-1-AP (LMOD3 Antibody) at dilution of 1:50 (under 40x lens).