

For Research Use Only

# MIOS Polyclonal antibody

Catalog Number: 20826-1-AP

3 Publications



## Basic Information

Catalog Number:

20826-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14802

GenBank Accession Number:

BC005883

GeneID (NCBI):

54468

UNIPROT ID:

Q9NXC5

Full Name:

missing oocyte, meiosis regulator,  
homolog (Drosophila)

Calculated MW:

875 aa, 99 kDa

Observed MW:

99 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

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

IHC: 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, pig

**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 : K-562 cells, rat liver tissue, HeLa cells, PC-3 cells

IP : HeLa cells,

IHC : mouse skeletal muscle tissue,

## Background Information

The mechanistic target of rapamycin complex 1 (mTORC1) controls growth by regulating anabolic and catabolic processes in response to environmental cues, including nutrients. Amino acids signal to mTORC1 through the Rag GTPases, which are regulated by several protein complexes, including GATOR1 and GATOR2. GATOR2, which has five components (WDR24, MIOS, WDR59, SEH1L, SEC13), is required for amino acids to activate mTORC1. PMID: 35831510

## Notable Publications

Author	Pubmed ID	Journal	Application
Jacqueline Morales	36282590	JCI Insight	WB
Marko Rudar	34719946	Am J Physiol Endocrinol Metab	WB
Shankha S Chatterjee	39567499	Nat Commun	WB

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

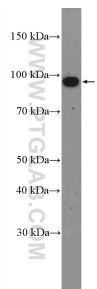
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

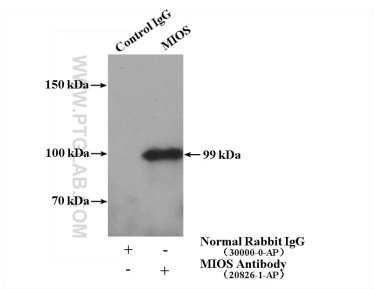
W: [ptgcn.com](http://ptgcn.com)

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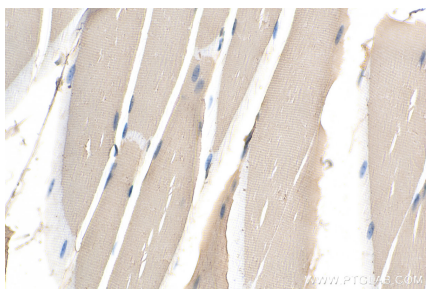
Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 20826-1-AP (MIOS Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-MIOS (IP:20826-1-AP, 4ug; Detection:20826-1-AP 1:300) with HeLa cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 20826-1-AP (MIOS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).