

For Research Use Only

MYSM1-Specific Polyclonal antibody

Catalog Number:20078-1-AP

Featured Product

1 Publications



Basic Information

Catalog Number:

20078-1-AP

Size:

150ul , Concentration: 350 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001085487

GeneID (NCBI):

114803

UNIPROT ID:

Q5VVJ2

Full Name:

Myb-like, SWIRM and MPN domains 1

Calculated MW:

95 kDa

Observed MW:

81 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

IHC

Species Specificity:

human, mouse, rat

Cited Species:

human

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 : A549 cells, HepG2 cells, HeLa cells, HEK-293 cells

IP : HeLa cells,

IHC : mouse kidney tissue, human spleen tissue, mouse small intestine tissue, human pancreas cancer tissue, human urothelial carcinoma tissue, rat kidney tissue, rat small intestine tissue

IF/ICC : A431 cells,

Background Information

MYSM1, also named as KIAA1915, belongs to the peptidase M67A family and MYSM1 subfamily. MYSM1 is a metalloprotease that specifically deubiquitinates monoubiquitinated histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A leads to facilitate the phosphorylation and dissociation of histone H1 from the nucleosome. MYSM1 acts as a coactivator by participating in the initiation and elongation steps of androgen receptor (AR)-induced gene activation. It catalyzes the reaction: Ubiquitin C-terminal thioester + H₂O = ubiquitin + a thiol. MYSM1 is a marker of cancer. The antibody is specific to MYSM1.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|-------------------|-------------|
| Xiaolin Guan | 35217648 | Cell Death Discov | IHC |

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

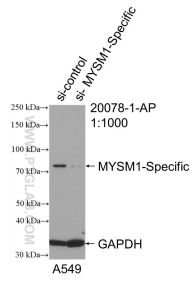
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

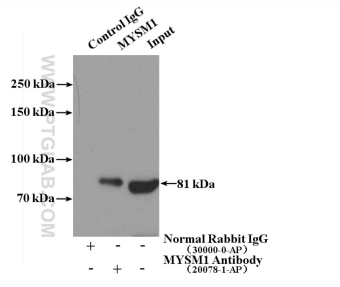
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



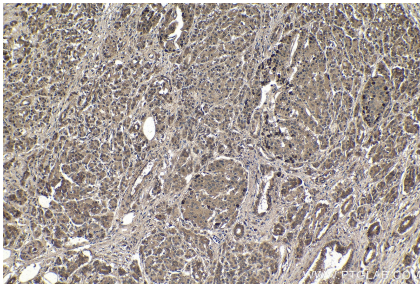
WB result of MYSM1-Specific antibody (20078-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MYSM1-Specific transfected A549 cells.



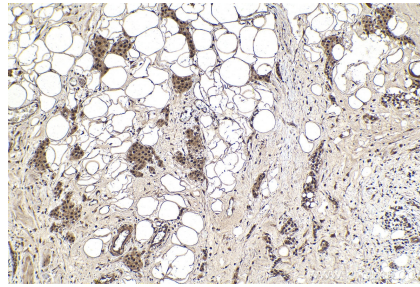
IP result of anti-MYSM1-Specific (IP:20078-1-AP, 4ug; Detection:20078-1-AP 1:300) with HeLa cells lysate 3200ug.



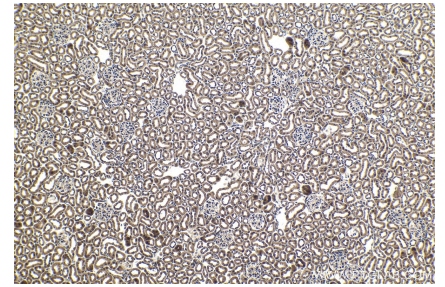
IP result of anti-MYSM1-Specific (IP:20078-1-AP, 4ug; Detection:20078-1-AP 1:1000) with HeLa cells lysate 1200 ug.



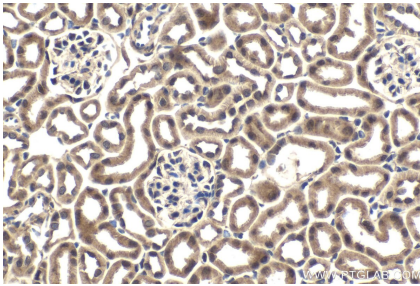
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 20078-1-AP (MYSM1-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



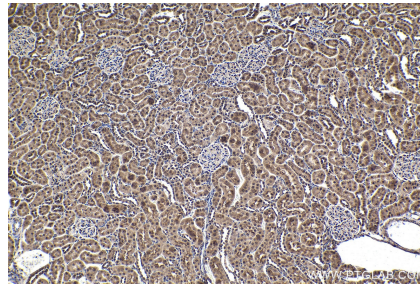
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using 20078-1-AP (MYSM1-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



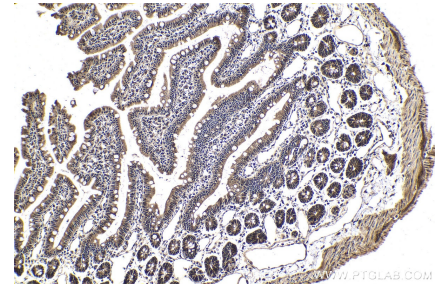
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 20078-1-AP (MYSM1-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



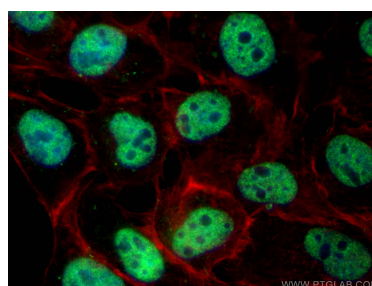
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 20078-1-AP (MYSM1-Specific antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 20078-1-AP (MYSM1-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using 20078-1-AP (MYSM1-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 20078-1-AP (MYSM1-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed A431 cells using MYSM1-Specific antibody (20078-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).