

For Research Use Only

MYL12A Polyclonal antibody

Catalog Number: 16287-1-AP

5 Publications



Basic Information

Catalog Number:

16287-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9413

GenBank Accession Number:

BC016372

GeneID (NCBI):

10627

UNIPROT ID:

P19105

Full Name:

myosin, light chain 12A, regulatory, non-sarcomeric

Calculated MW:

171 aa, 20 kDa

Observed MW:

19-20 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

IHC: 1:2000-1:8000

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, pig, frog

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: NIH/3T3 cells, HeLa cells, Jurkat cells

IHC: human colon cancer tissue,

Background Information

Myosin II is an actin-binding protein composed of MHC (myosin heavy chain), MLCs/MRLCs (myosin regulatory light chains) and ELCs (essential light chains). The Myosin Light Chains are divided into basic MLC (MLC I) and regulatory MLC (MLC II or Myosin Regulatory Light Chain, MRLC). MRLC can be classified into two major types: class I MRLC found in muscles (MLC1, MLC2, MLC3, MYL4, MYL5, MYL6, MYL7, etc), and class II MRLCs present in non-muscle cells (such as MYL9, MYL12A, MYL12B).

Notable Publications

Author	Pubmed ID	Journal	Application
Marchenko A V AV	21268344	Biofizika	IHC
Jie Sun	33424621	Front Physiol	WB
Ryohei Oya	40240732	J Assoc Res Otolaryngol	IF

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

*** 20ul sizes contain 0.1% BSA

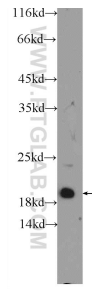
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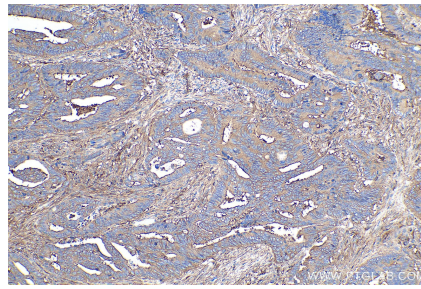
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Selected Validation Data



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 16287-1-AP (MYL12A Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16287-1-AP (MYL12A antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).