For Research Use Only

MYLK Polyclonal antibody

Catalog Number: 21642-1-AP 30 Publications



Basic Information

Catalog Number:

21642-1-AP

BC113456

Concentration:

600 ug/ml

4638

Source:

UNIPROT ID:

Rabbit

Q15746

Isotype:

GenBank Accession Number:

GeneID (NCBI):

4638

UNIPROT ID:

Q15746

Full Name:

gG myosin light chain kinase

Immunogen Catalog Number: Calculated MW:
AG16306 Calculated MW:
1914 aa, 211 kDa
Observed MW:

135 kDa

Purification Method: Antigen affinity purification Recommended Dilutions:

WB 1:500-1:2400 IHC 1:200-1:800 IF-P 1:50-1:500 IF/ICC 1:200-1:800

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB, IHC, IF, CoIP
Species Specificity:
human, mouse, rat
Cited Species:

human, mouse, rat, pig, monkey

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 uterus tissue, mouse large intestine tissue

IHC: human colon tissue,

IF-P: mouse ovary tissue, human rectal cancer tissue

IF/ICC: HepG2 cells,

Background Information

MYLK(Myosin light chain kinase) is also named as MLCK, MLCK1, MYLK1 and belongs to the protein kinase superfamily. It is a key enzyme in muscle contraction. Its activation is sufficient to enhance paracellular permeability and is required for tight junction barrier regulation in response to Na+-nutrient cotransport, inflammatory cytokines, or pathogenic bacteria(PMID:20404178). The expression of smooth muscle MYLK is tissue-specific. Smooth muscle MYLK generates three different proteins, long MYLK, short MYLK, and telokin. The 130-kDa smooth muscle, or short, MYLK (130 kDa) is expressed in smooth muscles. It has 8 isoforms produced by alternative splicing and alternative initiation and our anti-MYLK antibody can recognize these isforms.

Notable Publications

Author	Pubmed ID	Journal	Application
Jian Zhao	36170767	Placenta	WB
Wenxuan Xu	27896916	FEBS J	IF
Jie Wu	33206094	Metallomics	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

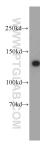
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

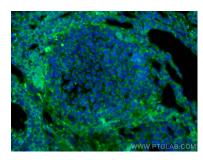
W: ptgcn.cor

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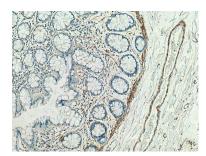
Selected Validation Data



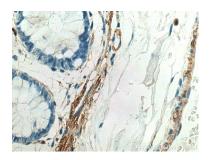
mouse uterus tissue were subjected to SDS PAGE followed by western blot with 21642-1-AP (MYLK antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



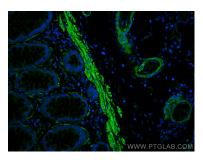
Immunofluorescent analysis of (4% PFA) fixed mouse ovary tissue using MYLK antibody (21642-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



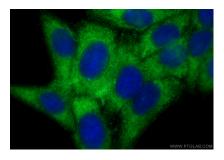
Immunohistochemical analysis of paraffinembedded human colon tissue slide using 21642-1-AP (MYLK antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 21642-1-AP (MYLK antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human rectal cancer tissue using MYLK antibody (21642-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MYLK antibody (21642-1-AP) at dilution of 1:400 and Multi-rAb Coralite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).