

For Research Use Only

# PKMYT1 Monoclonal antibody

Catalog Number: 67806-1-Ig

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 67806-1-Ig	<b>GenBank Accession Number:</b> NM_004203	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9088	<b>CloneNo.:</b> 1D12D3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q99640	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000
<b>Isotype:</b> IgG2a	<b>Full Name:</b> protein kinase, membrane associated tyrosine/threonine 1	
<b>Immunogen Catalog Number:</b> AG30849	<b>Calculated MW:</b> 55 kDa	
	<b>Observed MW:</b> 55 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

Human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : LNCaP cells, MCF-7 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, PC-12 cells, HSC-T6 cells, 4T1 cells, NIH/3T3 cells

IHC : human colon cancer tissue,

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

## Background Information

Protein kinase, membrane associated tyrosine/threonine (PKMYT1) is a member of the Wee family of protein kinases. PKMYT1 acts as a negative regulator of the cell cycle by inactivating the CDK1-cyclinB complex through phosphorylation of Tyr14/Tyr15 and preventing cell cycle entering into mitosis at the G2/M transition. In mammalian somatic cells, PKMYT1 affects the assembly of the Golgi apparatus and endoplasmic reticulum during telophase of mitosis by inhibiting cyclin activities. Abnormal expression of PKMYT1 is closely associated with multiple types of cancers. PKMYT1 protein was mainly localized in the cytoplasm. (PMID: 31695486, PMID: 32801781)

## Notable Publications

Author	Pubmed ID	Journal	Application
Kun-Huan Zhang	38014604	Adv Sci (Weinh)	WB
Linhua Yang	36988891	Cell Oncol (Dordr)	IHC, 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

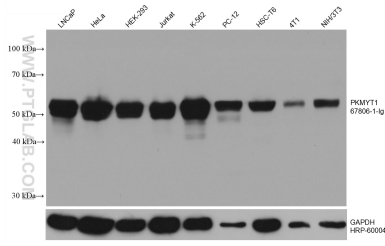
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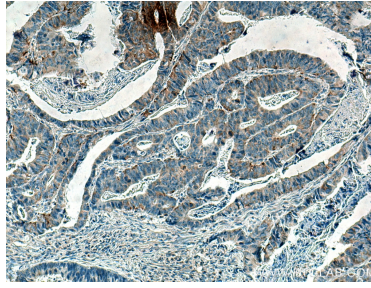
E: proteintech@ptglab.com  
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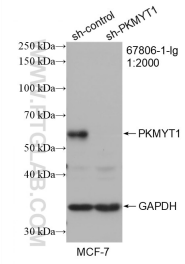
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67806-1-Ig (PKMYT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67806-1-Ig (PKMYT1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of PKMYT1 antibody (67806-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PKMYT1 transfected MCF-7 cells.