

For Research Use Only

PKMYT1 Monoclonal antibody

Catalog Number: 67806-1-Ig

Featured Product

2 Publications



Basic Information

Catalog Number:

67806-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG30849

GenBank Accession Number:

NM_004203

GeneID (NCBI):

9088

UNIPROT ID:

Q99640

Full Name:

protein kinase, membrane associated tyrosine/threonine 1

Calculated MW:

55 kDa

Observed MW:

55 kDa

Purification Method:

Protein A purification

CloneNo.:

1D12D3

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

Human, mouse, rat

Cited Species:

human, mouse

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: 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,

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

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

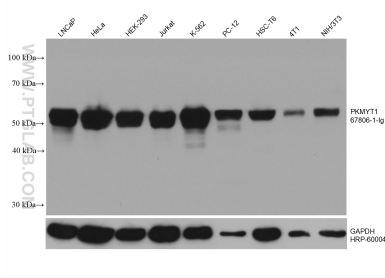
T: 4006900926

E: Proteintech-CN@ptglab.com

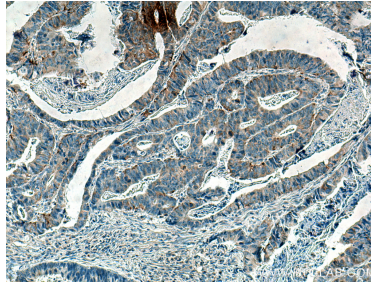
W: ptgcn.com

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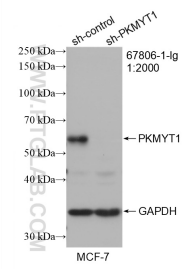
Selected Validation Data



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.