



Rabbit Anti-PKMYT1 antibody

SL4148R

Product Name:	PKMYT1
Chinese Name:	髓鞘转录因子1激酶抗体
Alias:	cdc2 inhibitory kinase; Membrane associated tyrosine and threonine specific cdc2 inhibitory kinase; Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase; MYT1; Myt1 kinase; PKMYT 1; Pkmyt1; PMYT1_HUMAN; Protein kinase membrane associated tyrosine/threonine 1; Protein kinase Myt1; DKFZp547K1610; FLJ20093.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	55kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PKMYT1:121-220/499
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a member of the serine/threonine protein kinase family. The encoded protein is a membrane-associated kinase that negatively regulates the G2/M transition of the cell cycle by phosphorylating and inactivating cyclin-dependent kinase 1. The

activity of the encoded protein is regulated by polo-like kinase 1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

Function:

Acts as a negative regulator of entry into mitosis (G2 to M transition) by phosphorylation of the CDK1 kinase specifically when CDK1 is complexed to cyclins. Mediates phosphorylation of CDK1 predominantly on 'Thr-14'. Also involved in Golgi fragmentation. May be involved in phosphorylation of CDK1 on 'Tyr-15' to a lesser degree, however tyrosine kinase activity is unclear and may be indirect. May be a downstream target of Notch signaling pathway during eye development.

Subunit:

Interacts with CDC2-CCNB1 complex. Can also interact with PIN1 when phosphorylated by CDC2-CCNB1.

Subcellular Location:

Endoplasmic reticulum membrane; Peripheral membrane protein. Golgi apparatus membrane; Peripheral membrane protein.

Post-translational modifications:

Autophosphorylated. Phosphorylated by CDC2-CCNB1 complexes on undefined serine and threonine residues. The phosphorylation by CDC2-CCNB1 complexes may inhibit the catalytic activity.

Similarity:

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. WEE1 subfamily.
Contains 1 protein kinase domain.

SWISS:

Q99640

Gene ID:

9088

Database links:

[Entrez Gene: 9088](#)Human

[Entrez Gene: 268930](#)Mouse

[Entrez Gene: 287101](#)Rat

[Omim: 602474](#)Human

[SwissProt: Q99640](#)Human

[SwissProt: Q9ESG9](#)Mouse

[Unigene: 77783](#)Human

[Unigene: 182193](#)Mouse

[Unigene: 204349](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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