

PKMYT1 Antibody (aa49-98)
Rabbit Polyclonal Antibody
Catalog # ALS15416**Specification**

PKMYT1 Antibody (aa49-98) - Product Information

Application	WB, IHC
Primary Accession	Q99640
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55kDa KDa

PKMYT1 Antibody (aa49-98) - Additional Information**Gene ID** 9088**Other Names**

Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase, 2.7.11.1, Myt1 kinase, PKMYT1, MYT1

Target/Specificity

MYT1 (Ab-83) Antibody detects endogenous levels of total MYT1 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

PKMYT1 Antibody (aa49-98) is for research use only and not for use in diagnostic or therapeutic procedures.

PKMYT1 Antibody (aa49-98) - Protein Information**Name** PKMYT1**Synonyms** MYT1**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 (PubMed:9268380, PubMed:9001210, PubMed:10504341, PubMed:10373560). Mediates phosphorylation of CDK1 predominantly on 'Thr-14'. Also involved in Golgi fragmentation (PubMed:9268380, PubMed:9001210). May be involved in phosphorylation of CDK1 on 'Tyr-15' to a lesser degree, however tyrosine

kinase activity is unclear and may be indirect (PubMed:9268380, PubMed:9001210).

Cellular Location

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

Volume

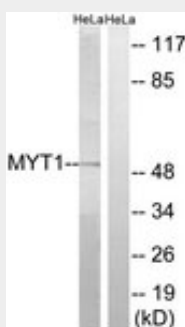
50 µl

PKMYT1 Antibody (aa49-98) - Protocols

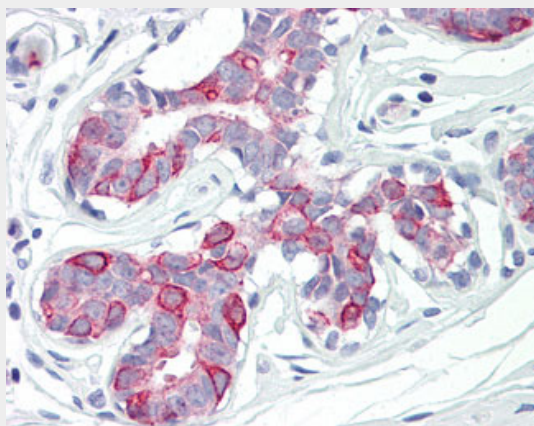
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PKMYT1 Antibody (aa49-98) - Images



Western blot of extracts from HeLa cells, using MYT1 (Ab-83) Antibody.



Anti-PKMYT1 antibody IHC of human breast.

PKMYT1 Antibody (aa49-98) - Background

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.

PKMYT1 Antibody (aa49-98) - References

Booher R.N., et al. J. Biol. Chem. 272:22300-22306(1997).
Liu F., et al. Mol. Cell. Biol. 17:571-583(1997).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Martin J., et al. Nature 432:988-994(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.