

**Anti-MYT1 Antibody**  
**Rabbit polyclonal antibody to MYT1**  
**Catalog # AP60608****Specification**

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**Anti-MYT1 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O99640</a>
Other Accession	<a href="#">O9ESG9</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54521

**Anti-MYT1 Antibody - Additional Information****Gene ID** 9088**Other Names**

MYT1; Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase; Myt1 kinase

**Target/Specificity**

Recognizes endogenous levels of MYT1 protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

IHC~~1:100~500

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C.Stable for 12 months from date of receipt

**Anti-MYT1 Antibody - 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:<a href="http://www.uniprot.org/citations/10373560" target="\_blank">10373560</a>, PubMed:<a href="http://www.uniprot.org/citations/10504341" target="\_blank">10504341</a>, PubMed:<a href="http://www.uniprot.org/citations/9001210" target="\_blank">9001210</a>, PubMed:<a href="http://www.uniprot.org/citations/9268380" target="\_blank">9268380</a>). Mediates

phosphorylation of CDK1 predominantly on 'Thr-14'. Also involved in Golgi fragmentation (PubMed:<a href="http://www.uniprot.org/citations/9001210" target="\_blank">9001210</a>, PubMed:<a href="http://www.uniprot.org/citations/9268380" target="\_blank">9268380</a>). 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:<a href="http://www.uniprot.org/citations/9001210" target="\_blank">9001210</a>, PubMed:<a href="http://www.uniprot.org/citations/9268380" target="\_blank">9268380</a>).

#### Cellular Location

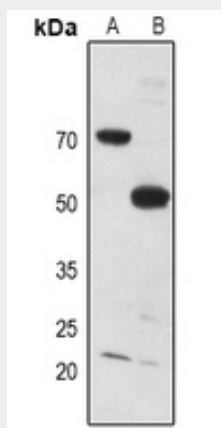
Endoplasmic reticulum membrane; Peripheral membrane protein. Golgi apparatus membrane; Peripheral membrane protein

#### Anti-MYT1 Antibody - Protocols

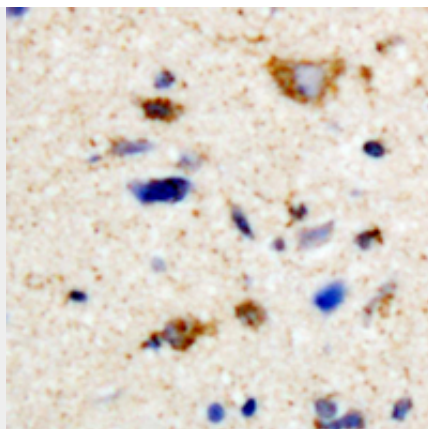
Provided below are standard protocols that you may find useful for product applications.

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

#### Anti-MYT1 Antibody - Images



Western blot analysis of MYT1 expression in rat liver (A), rat muscle (B) whole cell lysates.



Immunohistochemical analysis of MYT1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-MYT1 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MYT1. The exact sequence is proprietary.