

# Anti-MYT1 Antibody

Rabbit polyclonal antibody to MYT1

Catalog # AP60608

## Product Information

Application	WB, IHC
Primary Accession	<a href="#">Q99640</a>
Other Accession	<a href="#">Q9ESG9</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54521

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

## 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="#">10373560</a> , PubMed: <a href="#">10504341</a> , PubMed: <a href="#">9001210</a> , PubMed: <a href="#">9268380</a> ). Mediates phosphorylation of CDK1 predominantly on 'Thr-14'. Also involved in Golgi fragmentation (PubMed: <a href="#">9001210</a> , PubMed: <a href="#">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="#">9001210</a> , PubMed: <a href="#">9268380</a> ).
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Golgi apparatus membrane; Peripheral membrane protein

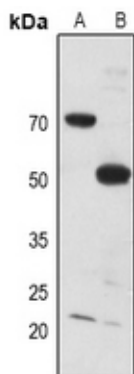
## Background

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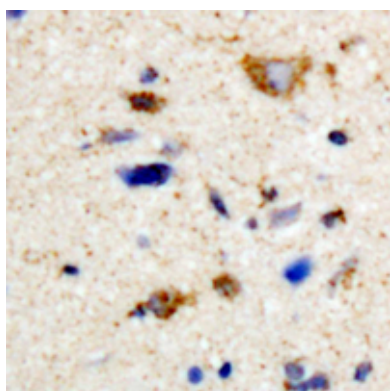
KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MYT1. The exact sequence is proprietary.

## Images

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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.

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