



# Myt 1 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-14871
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	PKMYT1
<b>Protein Name</b>	Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human PKMYT1. AA range:49-98
<b>Specificity</b>	Myt 1 Polyclonal Antibody detects endogenous levels of Myt 1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	PKMYT1; MYT1; Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase; Myt1 kinase
<b>Observed Band</b>	50kD
<b>Cell Pathway</b>	Endoplasmic reticulum membrane ; Peripheral membrane protein . Golgi apparatus membrane ; Peripheral membrane protein .
<b>Tissue Specificity</b>	Brain,Epithelium,PCR rescued clones,
<b>Function</b>	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain:The membrane-association motif is essential for the localization to membrane of Golgi stack. According to some authors, it is a transmembrane domain; the existence of a transmembrane region is however unproven.,enzyme regulation:Negatively regulated by hyperphosphorylation during mitosis. The hyperphosphorylated form does not associate with CCNB1-CDC2 complexes. The PLK1 protein kinase may be required for mitotic phosphorylation.,function:Acts as a negative regulator of entry into mitosis (G2 to M transition) by phosphorylation of the cdc2 kinase specifically when cdc2 is complexed to cyclins. Mediates phosphorylation of cdc2 predominantly on 'Thr-14'. Also involved in Golgi fragmentation. May be involved in phosphorylation of cdc2 on 'Tyr-15' to a lesser degree, however tyrosine kinase activity is unclear and may be ind



## Background

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],

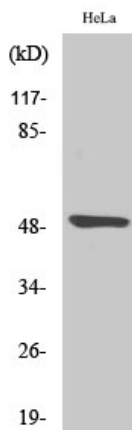
## matters needing attention

Avoid repeated freezing and thawing!

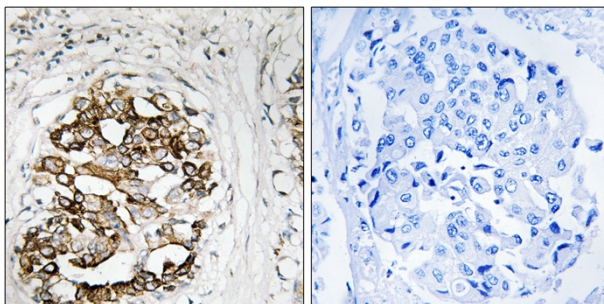
## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

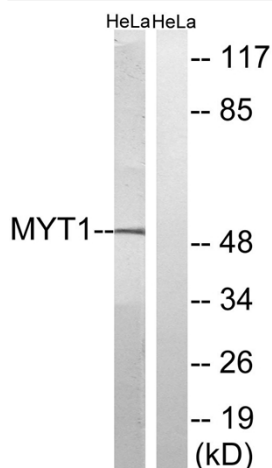
## Products Images



Western Blot analysis of various cells using Myt 1 Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using MYT1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using MYT1 Antibody. The lane on the right is blocked with the synthesized peptide.