MYT1 (Phospho Ser83) Rabbit pAb

CatalogNo: YP1052

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- IHC,IF,ELISA

MW
- 55kD (Calculated)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IHC 1:100-1:300
ELISA 1:5000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human MYT1 around the phosphorylation site of Ser83. AA range:49-98
Specificity	Phospho-Myt 1 (S83) Polyclonal Antibody detects endogenous levels of Myt 1 protein only when phosphorylated at S83.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RVsFR

Target Information

Gene name PKMYT1

Protein Name Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase

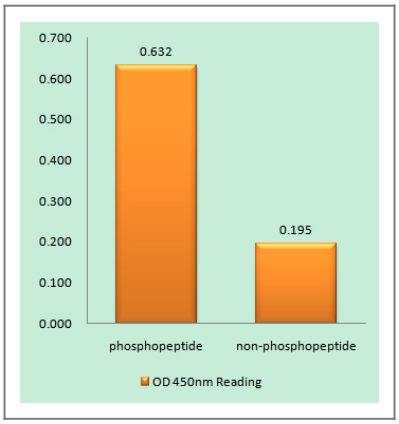
Organism	Gene ID	UniProt ID
Human	9088;	Q99640;
Mouse		Q9ESG9;

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

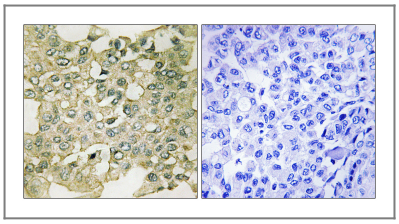
Tissue specificity Brain ,Epithelium ,PCR rescued clones ,

Function 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 indirect. May be a downstream target of Notch signaling pathway during eye development. ,PTM:Autophosphorylated. Phosphorylated by CDC2-CCNB1 complexes on undefined serine and threonine residues. The phosphorylation by CDC2-CCNB1 complexes may inhibit the catalytic activity. ,sequence Caution:Chimeric cDNA. ,similarity:Belongs to the protein kinase superfamily. ,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. WEE1 subfamily. ,similarity:Contains 1 protein kinase domain. ,subunit:Interacts with CDC2-CCNB1 complex. Can also interact with PIN1 when phosphorylated by CDC2-CCNB1. ,

Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using MYT1 (Phospho-Ser83) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using MYT1 (Phospho-Ser83) Antibody. The picture on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
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