MYT1 Rabbit pAb

CatalogNo: YT2958

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,IHC,IF,ELISA

MW
- 50kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:20000
IF 1:50-200

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.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human PKMYT1. AA range:49-98
Specificity	Myt 1 Polyclonal Antibody detects endogenous levels of Myt 1 protein.

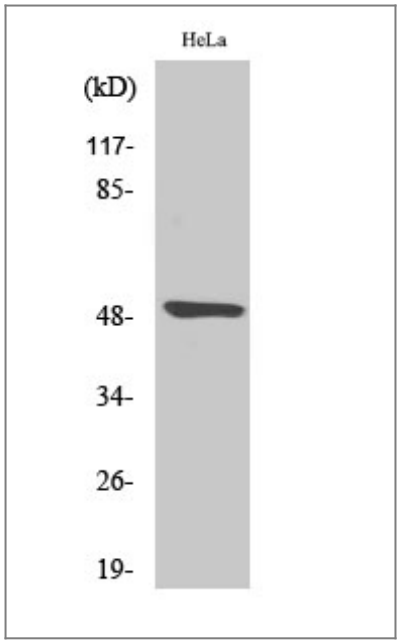
Target Information

Gene name	PKMYT1
Protein Name	Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase

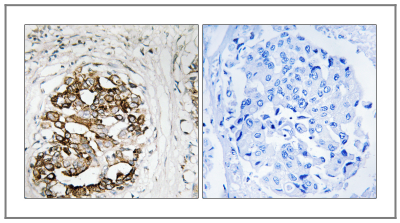
Organism	Gene ID	UniProt ID
Human	9088;	Q99640;
Mouse		Q9ESG9;

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.,

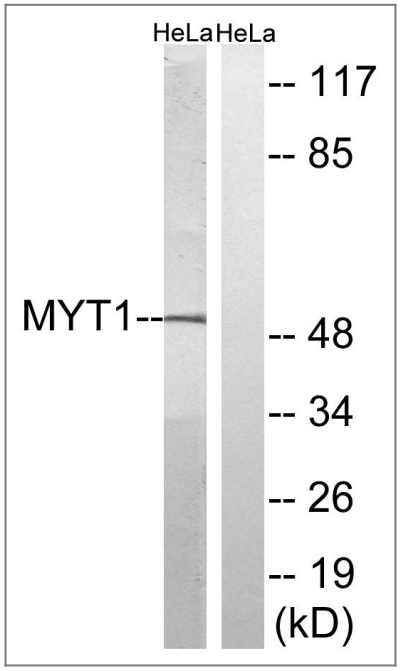
Validation Data



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.

Contact information

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Please scan the QR code to access additional product information:
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