

Rabbit anti-Human Myt1 Polyclonal Antibody | anti-Myt1 antibody

Phospho-Myt1 (Ser83) Antibody

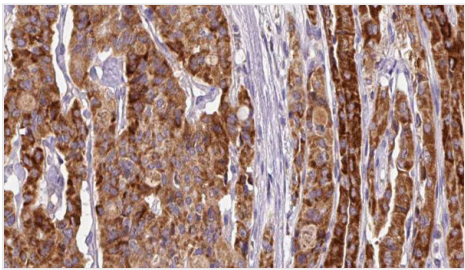
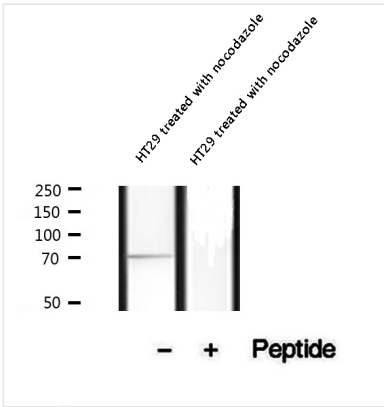
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321353	Rabbit	Human	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Myt1; Polyclonal Antibody; Phospho-Myt1 (Ser83) Antibody; cdc2 inhibitory kinase; DKFZp547K1610; FLJ20093; Membrane associated tyrosine and threonine specific cdc2 inhibitory kinase; Membrane-associated tyrosine-and threonine-specific cdc2-inhibitory kinase; MYT1; Myt1 kinase; PKMYT 1; Pkmyt1; PMYT1_HUMAN; PPP1R126; Protein kinase membrane associated tyrosine/threonine 1; Protein kinase Myt1; Protein phosphatase 1 regulatory subunit 126; anti-Myt1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Myt1 (Ser83) antibody detects endogenous levels of Myt1.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	430
Applicable Applications for anti-Myt1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Myt1 around the phosphorylation site of Ser83.
Subcellular Location	Endoplasmic Reticulum Membrane. Golgi Apparatus Membrane.
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog
Similarity	Pig (92%), Bovine (80%), Horse (92%), Rabbit (83%), Dog (92%)
Conjugation	Unconjugated
Epitope	Phospho Ser83
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321353 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of HT29 cells treated with nocodazole, using Phospho-Myt1 (Ser83) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-Myt1 antibody	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. Mediates phosphorylation of CDK1 predominantly on 'Thr-14'. Also involved in Golgi fragmentation. May be involved in phosphorylation of CDK1 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. Subunit Structure: Interacts with CDC2-CCNB1 complex. Can also interact with PIN1 when phosphorylated by CDC2-CCNB1. Post-translational Modifications: Autophosphorylated. Phosphorylated by CDC2-CCNB1 complexes on undefined serine and threonine residues. The phosphorylation by CDC2-CCNB1 complexes may inhibit the catalytic activity. Similarity: 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. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. WEE1 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	386642875
NCBI GeneID	9088
NCBI Accession #	NP_001245379.1
NCBI GenBank Nucleotide #	NM_001258450.1
UniProt Accession #	Q99640; O14731; Q7LE24; Q8TCM9; B3KUN8; B4DXD4; D3DUA4; F8W164; I3L1V2
Molecular Weight	Observed: 70 kDa Predicted: 55 kDa
NCBI Official Full Name	membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase isoform 3
NCBI Official Synonym Full Names	protein kinase, membrane associated tyrosine/threonine 1
NCBI Official Symbol	PKMYT1
NCBI Official Synonym Symbols	MYT1; PPP1R126
NCBI Protein Information	membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase
UniProt Protein Name	Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase
UniProt Gene Name	PKMYT1
UniProt Synonym Gene Names	MYT1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/myt1-antibody-immunohistochemistry-western-blot-elisa/321353>