PKMYT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PKMYT1, Polyclonal Antibody
Full Product Name	PKMYT1 (Membrane-associated Tyrosine-and Threonine-specific CDC2-inhibitory Kinase, Myt1 Kinase, MYT1) (MaxLight 550)
Product Gene Name	anti-PKMYT1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PKMYT1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
OMIM	602474
3D Structure	ModBase 3D Structure for Q99640
Immunogen	Full length human PKMYT1, aa1-499 (NP_004194.3).
Immunogen Sequence	MLERPPALAMPMPTEGTPPPLSGTPIPVPAYFRHAEPGFSLKRPRGLSRSLPPPPPAKGSIPISRLFPPRTPGWHQLQPRRVSFRGEASETLQSPGYDPS
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-PKMYT1 antibody	Antibodies; Tyrosine Kinases
Applications Tested/Suitable for anti-PKMYT1 antibody	Western Blot (WB)
Application Notes for anti-PKMYT1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PKMYT1 antibody	MaxLight550 is a new Yellow-Green photostable dye conjugate comparable to Alexa Fluor546, 555, DyLight549, Cy3, TRITC and offers better labeling
Other Notes	Small volumes of anti-PKMYT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece

Searchable Terms for PKMYT1 purchase	MBS6389588 is an antibody targeting PKMYT1. Also known as PKMYT1 (Membrane-associated Tyrosine-and Threonine-specific CDC2-inhibitory Kina

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PKMYT1. It may not necessarily be applicable to this product.

NCBI GI #	1519316097
NCBI GeneID	9088
NCBI Accession #	NM_004203.5
UniProt Primary Accession #	Q99640
UniProt Related Accession #	Q99640
GenBank Nucleotide #	NM_004203
NCBI Official Full Name	Homo sapiens protein kinase, membrane associated tyrosine/threonine 1 (PKMYT1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	protein kinase, membrane associated tyrosine/threonine 1
NCBI Official Symbol	PKMYT1
NCBI Official Synonym Symbols	MYT1; PPP1R126
UniProt Protein Name	Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase
UniProt Synonym Protein Names	Myt1 kinase
Protein Family	Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase
UniProt Gene Name	PKMYT1
UniProt Synonym Gene Names	MYT1
UniProt Entry Name	PMYT1_HUMAN
NCBI Protein Information	membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase
NCBI Summary for PKMYT1	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]
UniProt Comments for PKMYT1	Myt1: a dual specificity protein kinase of the WEE family. Preferentially phosphorylates and inactivates cell division cycle 2 protein (CDC2), and thus negatively regulates cell cycle G2/M transition. This kinase is associated with the membrane throughout the cell cycle. Its activity is highly regulated during the cell cycle. Alternative splice-variant isoforms have been reported. Protein type: EC 2.7.11.1; Kinase, protein; Protein kinase, Other; Protein kinase, dual-specificity (non-receptor); Other group; WEE family Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: nucleoplasm; Golgi membrane; Golgi apparatus; endoplasmic reticulum membrane; membrane; endoplasmic reticulum; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; metal ion binding; kinase activity; ATP binding; protein kinase activity Biological Process: mitosis; regulation of cell cycle; regulation of mitosis; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; G2/M transition of mitotic cell cycle; protein amino acid phosphorylation; G1/S transition of mitotic cell cycle

Research Articles on PKMYT1	**1.** Overexpression of PKMYT1 is always found in breast cancer.
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