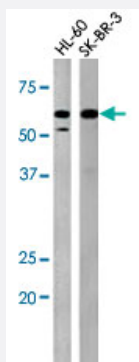


PKMYT1 (phospho T495) polyclonal antibody

Catalog # PAB0542

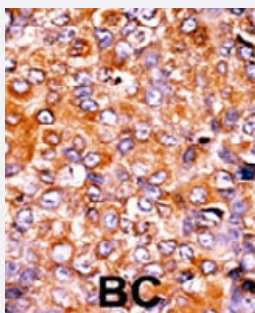
Size 400 uL

Applications



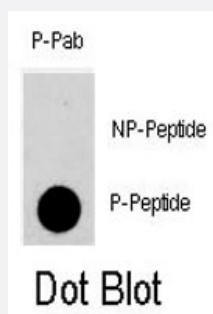
Western Blot (Cell lysate)

The PKMYT1 (phospho T495) polyclonal antibody (Cat # PAB0542) is used in Western blot to detect Phospho-PKMYT1-T495 in HL-60 (left) and SK-BR-3 (right) cell lysates



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with PKMYT1 (phospho T495) polyclonal antibody (Cat # PAB0542) which was peroxidase-conjugated to the secondary antibody followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.



Dot Blot (Peptide)

Dot blot analysis of PKMYT1 (phospho T495) polyclonal antibody (Cat # PAB0542) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic phosphopeptide of PKMYT1.

Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding T495 of human PKMYT1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Dot Blot (1:500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — PKMYT1

Entrez GeneID

[9088](#)

Protein Accession#

[NP_004194:Q99640](#)

Gene Name	PKMYT1
Gene Alias	DKFZp547K1610, FLJ20093, MYT1
Gene Description	protein kinase, membrane associated tyrosine/threonine 1
Omim ID	602474
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase 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. Protein kinases AKT1/PKB and PLK (Polo-like kinase) have been shown to phosphorylate and regulate the activity of this kinase. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]
Other Designations	membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase protein kinase Myt1

Publication Reference

- [Keratinocyte G2/M growth arrest by 1,25-dihydroxyvitamin D3 is caused by Cdc2 phosphorylation through Wee1 and Myt1 regulation.](#)
Dai X, Yamasaki K, Yang L, Sayama K, Shirakata Y, Tokumura S, Yahata Y, Tohyama M, Hashimoto K.
The Journal of Investigative Dermatology 2004 Jun; 122(6):1356.
- [Identification of a consensus motif for Plk \(Polo-like kinase\) phosphorylation reveals Myt1 as a Plk1 substrate.](#)
Nakajima H, Toyoshima-Morimoto F, Taniguchi E, Nishida E.
The Journal of Biological Chemistry 2003 Jul; 278(28):25277.
- [The p53-inducible TSAP6 gene product regulates apoptosis and the cell cycle and interacts with Nix and the Myt1 kinase.](#)
Passer BJ, Nancy-Portebois V, Amzallag N, Prieur S, Cans C, Roborel de Climens A, Fiucci G, Bouvard V, Tuynder M, Susini L, Morchoisne S, Crible V, Lespagnol A, Dausset J, Oren M, Amson R, Telerman A.
PNAS 2003 Mar; 100(5):2284.

Pathway

- [Cell cycle](#)