

Myt1 Antibody



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Applications: W, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60 to 70	Source/Isotype: Rabbit	UniProt ID: #Q99640	Entrez-Gene Id: 9088
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Myt1 Antibody detects endogenous levels of total Myt1 protein.				
Species predicted to react based on 100% sequence homology		Xenopus				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the middle of mouse and human Myt1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Entry of all eukaryotic cells into mitosis is regulated by activation of cdc2 kinase. The critical regulatory step in activating cdc2 during progression into mitosis appears to be dephosphorylation of Tyr15 and Thr14 (1,2). Phosphorylation at Tyr15 and Thr14 and inhibition of cdc2 is carried out by Wee1 and Myt1 protein kinases, while Tyr15 dephosphorylation and activation of cdc2 is carried out by the cdc25 phosphatase (1,3,4). Hyperphosphorylation and inactivation of Myt1 in mitosis suggests that one or more kinases activated at the G2/M transition negatively regulates Myt1 activity. Kinases shown to phosphorylate Myt1 include cdc2, p90RSK, Akt, and Plk1 (5-7).				
Background References		 Watanabe, N. et al. (1995) EMBO J 14, 1878-91. Hunter, T. (1995) Cell 80, 225-36. Galaktionov, K. et al. (1995) Genes Dev 9, 1046-58. McGowan, C.H. and Russell, P. (1993) EMBO J 12, 75-85. Booher, R.N. et al. (1997) J Biol Chem 272, 22300-6. Palmer, A. et al. (1998) EMBO J 17, 5037-47. Nakajima, H. et al. (2003) J Biol Chem 278, 25277-80. 				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
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Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

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Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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