Cdk1 / p34cdc2 Serine-Threonine Kinase Antibody

Mouse Monoclonal Antibody [Clone A17.1.1]

Catalog No	Format	Size
983-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
983-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
983-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

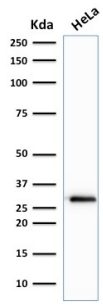
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

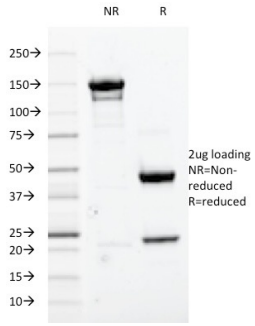
Clone	A17.1.1
Gene Name	CDK1
Immunogen	C-Terminal 2/3rds of Xenopus cdc2 expressed in E.coli
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	34kDa
Cellular Localization	Centrosome, Cytoplasm, Cytoskeleton, Microtubule organizing center, Mitochondrion, Nucleus, Spindle
Species Reactivity	Chicken, Guinea Pig, Human, Mouse, Rat, Woodchuck, Xenopus
Positive Control	HeLa cells. Human tonsil (IHC).

**Optimal dilution for a specific application should be determined.*

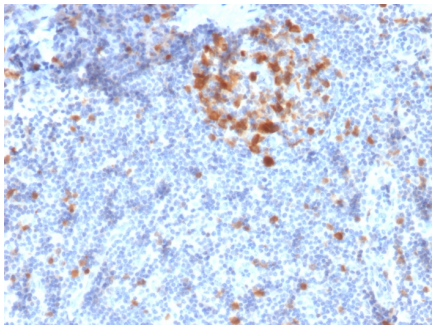
Product Images for Cdk1 / p34cdc2 Serine-Threonine Kinase Antibody



Western Blot Analysis of human HeLa cell lysate using Cdk1 MouseMonoclonal Antibody (A17.1.1).



SDS-PAGE Analysis of Purified Cdk1 Mouse Monoclonal Antibody (A17.1.1). Confirmation of Integrity and Purity of Antibody.



Formalin-fixed, paraffin-embedded human Tonsil stained with Cdk1 MouseMonoclonal Antibody (A17.1.1).

Specificity & Comments

Recognizes a 34kDa protein (cdk1), identified as p34cdc2 (a catalytic subunit of Maturation Promoting Factor). Its epitope maps near the C-terminus of the protein and its core is thought to be LGTPNNEV (aa220-227 in murine cdc2). It shows no cross reaction with cdk2 p32. It supports the kinase activity. p34cdc2 plays a crucial role during cell division and is most active during mitosis. It is a serine/threonine kinase, which is activated by cyclin, by dephosphorylation of tyrosine residues. p34cdc2 is inactivated by a tyrosine kinase. This MAb reportedly inhibits the activation of p34cdc2 kinase by cyclins.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Ovarian Cancer, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.