

Chk1 Monoclonal antibody

Catalog Number: 65016-1-Ig **1 Publications**

Basic Information

Catalog Number: 65016-1-Ig	GenBank Accession Number: BC004202	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1111	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200
Source: Mouse	UNIPROT ID: O14757	
Isotype: IgG1	Full Name: CHK1 checkpoint homolog (S. pombe)	
	Calculated MW: 54 kDa	
	Observed MW: 54 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : K562 cells, K-562
Cited Applications: WB, IF, IHC	IHC : Prostate cancer tissue, human prostate cancer
Species Specificity: human, mouse	
Cited Species: mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

In response to DNA damage, mammalian cells prevent cell cycle progression through the control of critical cell cycle regulators. Chk1 (synonym: CHEK1), a homolog of the Schizosaccharomyces pombe Chk1 protein kinase, is required for the DNA damage checkpoint. Human Chk1 protein is modified in response to DNA damage. In vitro Chk1 binds to and phosphorylate the dual-specificity protein phosphatases Cdc25A, Cdc25B, and Cdc25C, which control cell cycle transitions by dephosphorylating cyclin-dependent kinases.

Notable Publications

Author	Pubmed ID	Journal	Application
Tho L M LM	21804609	Oncogene	WB,IHC,IF

Storage

Storage:
Store at 2-8°C.
Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



K562 cells were subjected to SDS PAGE followed by western blot with 65016-1-Ig (CHK1 Antibody) at dilution of 1:1000.



Immunohistochemical of paraffin-embedded Prostate cancer using 65016-1-Ig (CHK1 Antibody) at Dilution 1:100.