

# Chk1 Monoclonal antibody

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

## Basic Information

### Catalog Number:

65016-1-Ig

### Size:

1000 µg/ml

### Source:

Mouse

### Isotype:

IgG1

### GenBank Accession Number:

BC004202

### GeneID (NCBI):

1111

### UNIPROT ID:

O14757

### Full Name:

CHK1 checkpoint homolog (S. pombe)

### Calculated MW:

54 kDa

### Observed MW:

54 kDa

### Purification Method:

Protein G purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

WB, IF, IHC

### 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**

### Positive Controls:

WB : K562 cells, K-562

IHC : Prostate cancer tissue, human prostate cancer

## 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.

For technical support and original validation data for this product please contact:

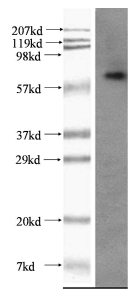
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

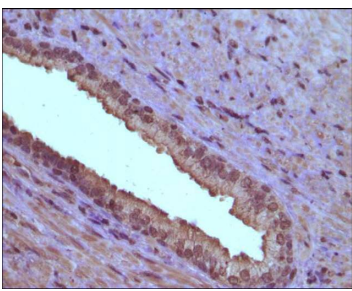
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# Selected Validation Data



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.