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## Monoclonal Antibodies Against Chk2 (Clone 4B8)

Tech ID: 25191 / UC Case 2011-382-0

### BRIEF DESCRIPTION

Mouse monoclonal antibody (clone 4B8) against the human Serine/threonine-protein kinase Chk2. This antibody has been tested for use in immunoprecipitation and western blot.

### FULL DESCRIPTION

Chk2 is a member of the CDS1 subfamily of serine/threonine protein kinases. Chk2 is a cell cycle checkpoint regulator and putative tumor suppressor. A forkhead-associated protein interaction domain is critical for activation in response to DNA damage and is rapidly phosphorylated in response to replication blocks and DNA damage. Once activated, Chk2 inhibits CDC25C phosphatase, preventing mitosis, and has been shown to stabilize the tumor suppressor protein p53. Chk2 also interacts and phosphorylates BRCA1 to promote cell survival after DNA damage. Mutations in Chk2 are linked to Li-Fraumeni syndrome, a highly penetrant familial cancer phenotype typically associated with inherited mutations in TP53. These mutations are also thought to confer predisposition to other types of cancer.

The described mouse monoclonal IgG1 antibody binds to human Chk2 and has been described for use in immunoprecipitation and western blot.

### SUGGESTED USES

Immunoprecipitation

Western blot

### ADVANTAGES

Specific antibody to detect Chk2 by antibody-antigen complex formation.

### RELATED MATERIALS

- » [Direct Activation of ATM by Resveratrol under Oxidizing Conditions - 06/16/2014](#)
- » [A novel synthetic protoapigenone analogue, WYC02-9, induces DNA damage and apoptosis in DU145 prostate cancer cells through generation of reactive oxygen species. - 01/20/2011](#)

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### INVENTORS

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### OTHER INFORMATION

### KEYWORDS

Monoclonal antibody,  
Centrosomal protein 164kDa,  
Cep164,  
Immunocytochemistry/immunofluorescence,  
Immunoprecipitation,  
Western blot

### CATEGORIZED AS

- » **Agriculture & Animal Science**
  - » Animal Science
- » **Biotechnology**
  - » Genomics
  - » Health
  - » Proteomics
- » **Imaging**

- » Medical
- » Molecular
- » **Medical**
  - » Diagnostics
  - » Disease:  
Autoimmune and  
Inflammation
  - » Disease: Blood and  
Lymphatic System
  - » Disease: Cancer
  - » Disease:  
Cardiovascular and  
Circulatory System
  - » Disease: Central  
Nervous System
  - » Research Tools
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- » **Nanotechnology**
  - » Tools and Devices
- » **Research Tools**
  - » Antibodies
- » **Sensors &  
Instrumentation**
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## RELATED CASES

2011-382-0, 2011-086-0,  
2011-375-0, 2011-376-0,  
2011-377-0, 2011-378-0,  
2011-379-0, 2011-380-0,  
2011-381-0, 2011-383-0,  
2011-384-0, 2011-385-0,  
2011-386-0, 2011-387-0

## ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ Monoclonal Antibody against ATR-IP (Clone 11)
- ▶ Monoclonal Antibody Against mtPAP (Clone 3D2)
- ▶ Monoclonal Antibody Against CEP164 (Clone 13)

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