



# Chk1 Monoclonal Antibody

Catalog No	BYmab-16710
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CHEK1
Protein Name	Serine/threonine-protein kinase Chk1
Immunogen	The antiserum was produced against synthesized peptide derived from human Chk1. AA range:286-335
Specificity	Chk1 Monoclonal Antibody detects endogenous levels of Chk1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Fullty	
Storage Stability	-20°C/1 year
•	-20°C/1 year  CHEK1; CHK1; Serine/threonine-protein kinase Chk1; CHK1 checkpoint homolog; Cell cycle checkpoint kinase; Checkpoint kinase-1
Storage Stability	CHEK1; CHK1; Serine/threonine-protein kinase Chk1; CHK1 checkpoint
Storage Stability Synonyms	CHEK1; CHK1; Serine/threonine-protein kinase Chk1; CHK1 checkpoint homolog; Cell cycle checkpoint kinase; Checkpoint kinase-1 54kD  Nucleus . Chromosome . Cytoplasm . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Nuclear export is mediated at least in part by XPO1/CRM1 (PubMed:12676962). Also localizes to the centrosome specifically during interphase, where it may protect centrosomal CDC2 kinase from
Storage Stability Synonyms Observed Band	CHEK1; CHK1; Serine/threonine-protein kinase Chk1; CHK1 checkpoint homolog; Cell cycle checkpoint kinase; Checkpoint kinase-1  54kD  Nucleus . Chromosome . Cytoplasm . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Nuclear export is mediated at least in part by XPO1/CRM1 (PubMed:12676962). Also localizes to the centrosome specifically during interphase, where it may protect centrosomal CDC2 kinase from inappropriate activation by cytoplasmic CDC25B (PubMed:15311285). Proteolytic cleavage at the C-terminus by SPRTN promotes removal from chromatin
Storage Stability Synonyms Observed Band Cell Pathway	CHEK1; CHK1; Serine/threonine-protein kinase Chk1; CHK1 checkpoint homolog; Cell cycle checkpoint kinase; Checkpoint kinase-1  54kD  Nucleus . Chromosome . Cytoplasm . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Nuclear export is mediated at least in part by XPO1/CRM1 (PubMed:12676962). Also localizes to the centrosome specifically during interphase, where it may protect centrosomal CDC2 kinase from inappropriate activation by cytoplasmic CDC25B (PubMed:15311285). Proteolytic cleavage at the C-terminus by SPRTN promotes removal from chromatin (PubMed:31316063)  Expressed ubiquitously with the most abundant expression in thymus, testis,

Nanjing BYabscience technology Co.,Ltd

网址: www.njbybio.com 官方热线: 025-5229-8998 监督电话: 15950492658



国内优质抗体供应商 精准的 WB 检测服务 24H 在线服务, 欢迎咨询



substrate consensus sequence [R-X-X-S/T]. Binds to and phosphorylates
CDC25A, CDC25B and CDC25C. Phosphorylation of CDC25A at 'Ser-178' and
'Thr-507' and phosphorylation of CDC25C at 'Ser-216' creates binding sites for
14-3-3 protein's which inhibit CDC25A and CDC25C. Phosphorylation of CDC25A
at 'Ser-76', 'Ser-124', 'Ser-178', 'Ser-279' and 'Ser-293' promotes proteolysis of
CDC25A. Inhibition of CDC25 activity leads to increased inhibitory tyrosine
phosphorylation of CDK-cyclin complexes and blocks cell cycle progression.
Binds
Billido

#### **Background**

The protein encoded by this gene belongs to the Ser/Thr protein kinase family. It is required for checkpoint mediated cell cycle arrest in response to DNA damage or the presence of unreplicated DNA. This protein acts to integrate signals from ATM and ATR, two cell cycle proteins involved in DNA damage responses, that also associate with chromatin in meiotic prophase I. Phosphorylation of CDC25A protein phosphatase by this protein is required for cells to delay cell cycle progression in response to double-strand DNA breaks. Several alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2011],

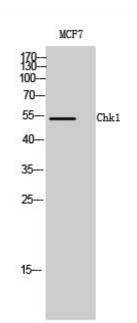
## matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### **Products Images**



Western Blot analysis of various cells using Chk1 Monoclonal Antibody

Nanjing BYabscience technology Co.,Ltd

网址: www.njbybio.com 官方热线: 025-5229-8998 监督电话: 15950492658