

Chk2 (Phospho Ser379) Rabbit pAb

CatalogNo: YP1853 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- IHC, WB

MW

- 61kD (Observed)

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human Chk2 (Phospho Ser379)

Specificity This antibody detects endogenous levels of Chk2 (Phospho Ser379) Rabbit pAb at Human, Mouse. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):ETSLM

| Target Information

Gene name CHEK2 CDS1 CHK2 RAD53

Protein Name Serine/threonine-protein kinase Chk2 (CHK2 checkpoint homolog) (Cds1 homolog) (Hucds1) (hCds1) (Checkpoint kinase 2)

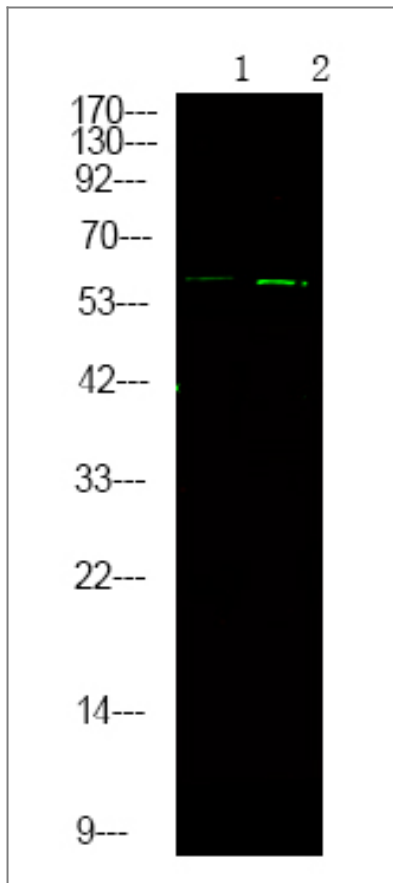
Organism	Gene ID	UniProt ID
Human	11200 ;	O96017 ;
Mouse	50883 ;	Q9Z265 ;

Cellular Localization [Isoform 2]: Nucleus. Isoform 10 is present throughout the cell.; [Isoform 4]: Nucleus.; [Isoform 7]: Nucleus.; [Isoform 9]: Nucleus.; [Isoform 12]: Nucleus.; Nucleus , PML body. Nucleus , nucleoplasm. Recruited into PML bodies together with TP53.

Tissue specificity High expression is found in testis , spleen , colon and peripheral blood leukocytes. Low expression is found in other tissues.

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,cofactor:Magnesium. ,Disease:Defects in CHEK2 are associated with Li-Fraumeni syndrome 2 (LFS2) [MIM:609265]; a highly penetrant familial cancer phenotype usually associated with inherited mutations in p53/TP53. ,Disease:Defects in CHEK2 are found in some patients with osteosarcoma (OSRC) [MIM:259500]. ,Disease:Defects in CHEK2 are found in some patients with prostate cancer (CaP) [MIM:176807]. ,enzyme regulation:Rapidly phosphorylated on Thr-68 by MLTK in response to DNA damage and to replication block. Kinase activity is also up-regulated by autophosphorylation. ,Function:Regulates cell cycle checkpoints and apoptosis in response to DNA damage , particularly to DNA double-strand breaks. Inhibits CDC25C phosphatase by phosphorylation on 'Ser-216' , preventing the entry into mitosis. May also play a role in meiosis. Regulates the TP53 tumor suppressor through phosphorylation at 'Thr-18' and 'Ser-20'. ,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CHK2 subfamily. ,similarity:Contains 1 FHA domain. ,similarity:Contains 1 protein kinase domain. ,subcellular location:Isoform 10 is present throughout the cell. ,tissue specificity:High expression is found in testis , spleen , colon and peripheral blood leukocytes. Low expression is found in other tissues. ,

| Validation Data



Western Blot analysis of 1 A549 cell 2 LPS 100ng/mL 30min treated ,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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Chk2 (Phospho Ser379) Rabbit pAb

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