产品名称: Chk2 (11S16) Rabbit Monoclonal Antibody

产品货号: AMRe08764



产品概述 (Summary)

产品名称 (Production Name) Chk2 (11S16) Rabbit Monoclonal Antibody

描述 (**Description**) Recombinant rabbit monoclonal antibody

宿主 (Host) Rabbit

应用 (Application) WB,IHC,ICC/IF,FC,IP

种属反应性 (Reactivity) Human

产品性能 (Performance)

偶联物 (Conjugation) Unconjugated 修饰 (Modification) Unmodified

同种型 (Isotype) IgG

克隆 (Clonality) Monoclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New 储存溶液 (Buffer)

type preservative N and 0.05% protective protein.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name) CHEK2

别名 (Alternative Names) CHEK2; CHK2; Cds1; Chk2; EC 2.7.11.1; RAD53; kinase Chk2;

基因 ID (Gene ID) 11200.0

蛋白ID (SwissProt ID) O96017.Recombinant protein of human Chk2

产品应用 (Application)

稀释比 (Dilution Ratio) WB 1:5000-1:10000,IHC 1:20-1:100,ICC/IF 1:20-1:50,FC 1:20-1:50,IP 1:20-1:50

蛋白分子量 (Molecular Weight) 61kDa

研究背景 (Background)

These are known to be preferred sites for phosphorylation by ATM/ATR kinases. After DNA damage by ionizing radiation

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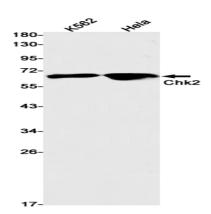


(IR), UV irradiation, or hydroxyurea treatment, Thr68 and other sites in this region become phosphorylated by ATM/ATR. The SQ/TQ cluster domain, therefore, seems to have a regulatory function. Serine/threonine-protein kinase which is required for checkpoint-mediated cell cycle arrest, activation of DNA repair and apoptosis in response to the presence of DNA double-strand breaks. May also negatively regulate cell cycle progression during unperturbed cell cycles. Following activation, phosphorylates numerous effectors preferentially at the consensus sequence [L-X-R-X-X-S/T]. Regulates cell cycle checkpoint arrest through phosphorylation of CDC25A, CDC25B and CDC25C, inhibiting their activity. Inhibition of CDC25 phosphatase activity leads to increased inhibitory tyrosine phosphorylation of CDK- cyclin complexes and blocks cell cycle progression. May also phosphorylate NEK6 which is involved in G2/M cell cycle arrest. Regulates DNA repair through phosphorylation of BRCA2, enhancing the association of RAD51 with chromatin which promotes DNA repair by homologous recombination. Also stimulates the transcription of genes involved in DNA repair (including BRCA2) through the phosphorylation and activation of the transcription factor FOXM1. Regulates apoptosis through the phosphorylation of p53/TP53, MDM4 and PML. Phosphorylation of p53/TP53 at 'Ser-20' by CHEK2 may alleviate inhibition by MDM2, leading to accumulation of active p53/TP53. Phosphorylation of MDM4 may also reduce degradation of p53/TP53. Also controls the transcription of pro-apoptotic genes through phosphorylation of the transcription factor E2F1. Tumor suppressor, it may also have a DNA damage-independent function in mitotic spindle assembly by phosphorylating BRCA1. Its absence may be a cause of the chromosomal instability observed in some cancer cells. Promotes the CCAR2-SIRT1 association and is required for CCAR2-mediated SIRT1 inhibition (PubMed: 25361978).

研究领域 (Research Area)

Epigenetics and Nuclear Signaling

图片 (Image Data)



Western blot detection of Chk2 in K562, Hela cell lysates using Chk2 antibody(1:1000 diluted).

注意事项 (Note)

For research use only.

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