

产品名称: Chk2 Rabbit Polyclonal Antibody
产品货号: APRab08765



产品概述 (Summary)

产品名称 (Production Name)	Chk2 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CHEK2
别名 (Alternative Names)	CHEK2; CDS1; CHK2; RAD53; Serine/threonine-protein kinase Chk2; CHK2 checkpoint homolog; Cds1 homolog; Hucds1; hCds1; Checkpoint kinase 2
基因 ID (Gene ID)	11200.0
蛋白 ID (SwissProt ID)	O96017.The antiserum was produced against synthesized peptide derived from human CHEK2. AA range:35-84

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	61kDa

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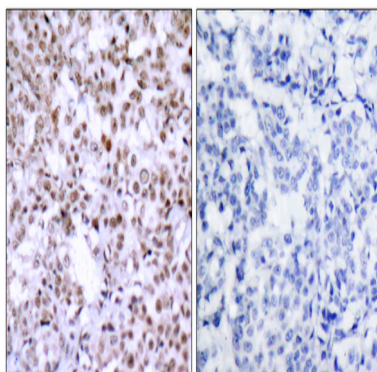
研究背景 (Background)

In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated protein interaction domain essential for activation in response to DNA damage and is rapidly phosphorylated in response to replication blocks and DNA damage. When activated, the encoded protein is known to inhibit CDC25C phosphatase, preventing entry into mitosis, and has been shown to stabilize the tumor suppressor protein p53, leading to cell cycle arrest in G1. In addition, this protein interacts with and phosphorylates BRCA1, allowing BRCA1 to restore survival after DNA damage. Mutations in this gene have been linked with Li-Fraumeni syndrome, a highly penetrant familial cancer phenotype usually associated with inherited mutational 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.,

研究领域 (Research Area)

Cell_Cycle_G1S; Cell_Cycle_G2M_DNA; p53;

图片 (Image Data)

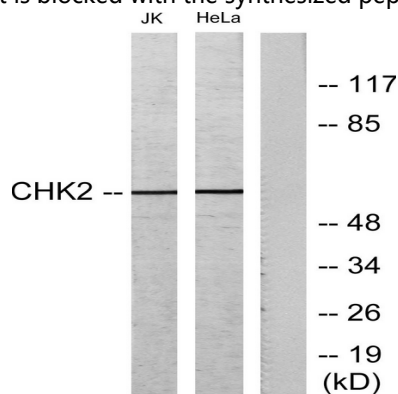


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Chk2 Antibody. The picture on the

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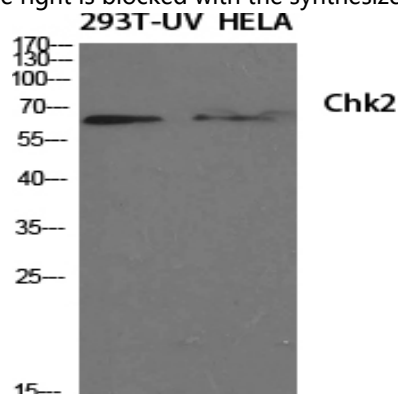


right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat and HeLa cells treated with etoposide 25uM 24hours, using Chk2 Antibody. The

lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Chk2 Polyclonal Antibody diluted at 1: 500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA) .



Western Blot analysis of HuvEc cells using Chk2 Polyclonal Antibody diluted at 1: 500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA) .

注意事项 (Note)

For research use only .