产品名称: Rad17 (phospho Ser645) Rabbit Polyclonal

Antibody

产品货号: APRab05325



产品概述 (Summary)

产品名称 (Production Name) Rad17 (phospho Ser645) Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit

应用 (Application)WB,IHC,ELISA种属反应性 (Reactivity)Human,Mouse

产品性能 (Performance)

偶联物 (Conjugation) Unconjugated 修饰 (Modification) Phosphorylated

同种型 (Isotype) IgG

克隆 (Clonality) Polyclonal 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.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name) RAD17

RAD17; R24L; Cell cycle checkpoint protein RAD17; hRad17; RF-C/activator 1 **别名 (Alternative Names)**

homolog

基因 ID (Gene ID) 5884.0

O75943.The antiserum was produced against synthesized peptide derived

蛋白ID (SwissProt ID) from human RAD17 around the phosphorylation site of Ser645. AA range:621-

670

产品应用 (Application)

稀释比 (Dilution Ratio) WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000

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蛋白分子量 (Molecular Weight) 77kDa

研究背景 (Background)

The protein encoded by this gene is highly similar to the gene product of Schizosaccharomyces pombe rad17, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. This protein binds to chromatin prior to DNA damage and is phosphorylated by the checkpoint kinase ATR following damage. This protein recruits the RAD1-RAD9-HUS1 checkpoint protein complex onto chromatin after DNA damage, which may be required for its phosphorylation. The phosphorylation of this protein is required for the DNA-damage-induced cell cycle G2 arrest, and is thought to be a critical early event during checkpoint signaling in DNA-damaged cells. Multiple alternatively spliced transcript variants of this gene, which encode four distinct protein isoforms, hfunction: Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage. Has a weak ATPase activity required for binding to chromatin. Participates in the recruitment of the RAD1-RAD9-HUS1 complex onto chromatin, and in CHEK1 activation. May also serve as a sensor of DNA replication progression, and may be involved in homologous recombination., induction: By X-ray irradiation (isoform 1, isoform 3 and isoform 4), PTM: Phosphorylated. Phosphorylation on Ser-646 and Ser-656 is cell cycle-regulated, enhanced by genotoxic stress, and required for activation of checkpoint signaling. Phosphorylation is mediated by ATR upon UV or replication arrest, whereas it may be mediated both by ATR and ATM upon ionizing radiation. Phosphorylation on both sites is required for interaction with RAD1 but dispensable for interaction with RFC3 or RFC4.,similarity:Belongs to the rad17/RAD24 family.,subcellular location:Phosphorylated form redistributes to discrete nuclear foci upon DNA damage, subunit:Part of a DNA-binding complex containing RFC2, RFC3, RFC4 and RFC5. Interacts with RAD1 and RAD9 within the RAD1-RAD9-HUS1 complex. Interacts with RAD9B, POLE, NHP2L1 and MCM7. DNA damage promotes interaction with ATR or ATM and disrupts interaction with the RAD1-RAD9-HUS1 complex., tissue specificity: Overexpressed in various cancer cell lines and in colon carcinoma (at protein level). Isoform 2 and isoform 3 are the most abundant isoforms in non irradiated cells (at protein level). Ubiquitous at low levels. Highly expressed in testis, where it is expressed within the germinal epithelium of the seminiferous tubuli. Weakly expressed in seminomas (testicular tumors).,

研究领域 (Research Area)

Cell Biology

图片 (Image Data)

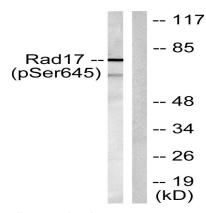
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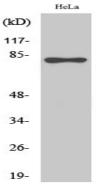
Antibody

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Western blot analysis of lysates from HeLa cells treated with UV 15 ', using RAD17 (Phospho-Ser645) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-Rad17 (S645) Polyclonal Antibody

注意事项 (Note)

For research use only.

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