

产品概述 (Summary)

产品名称 (Production Name) Rb (phospho Ser249) 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,Rat

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) RB1

別名 (Alternative Names) RB1; Retinoblastoma-associated protein; p105-Rb; pRb; Rb; pp110

基因 ID (Gene ID) 5925.0

P06400.The antiserum was produced against synthesized peptide derived

蛋白ID (SwissProt ID) from human Retinoblastoma around the phosphorylation site of Ser249. AA

range:221-270

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

蛋白分子量 (Molecular Weight)

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产品名称: Rb (phospho Ser249) Rabbit Polyclonal Antibody **EnkiLife** 产品货号: APRab05351

研究背景 (Background)

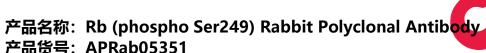
The protein encoded by this gene is a negative regulator of the cell cycle and was the first tumor suppressor gene found. The encoded protein also stabilizes constitutive heterochromatin to maintain the overall chromatin structure. The active, hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma. [provided by RefSeq, Jul 2008], disease: Defects in RB1 are a cause of bladder cancer [MIM:109800], disease: Defects in RB1 are a cause of osteogenic sarcoma [MIM:259500], disease: Defects in RB1 are the cause of childhood cancer retinoblastoma (RB) [MIM:180200]. RB is a congenital malignant tumor that arises from the nuclear layers of the retina. It occurs in about 1:20'000 live births and represents about 2% of childhood malignancies. It is bilateral in about 30% of cases. Although most RB appear sporadically, about 20% are transmitted as an autosomal dominant trait with incomplete penetrance. The diagnosis is usually made before the age of 2 years when strabismus or a gray to yellow reflex from pupil ("cat eye") is investigated, function: Key regulator of entry into cell division that acts as a tumor suppressor. Acts as a transcription repressor of E2F1 target genes. The underphosphorylated, active form of RB1 interacts with E2F1 and represses its transcription activity, leading to cell cycle arrest. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases SUV39H1, SUV420H1 and SUV420H2, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Inhibits the intrinsic kinase activity of TAF1. In case of viral infections, interactions with SV40 large T antigen, HPV E7 protein or adenovirus E1A protein induce the disassembly of RB1-E2F1 complex thereby disrupting RB1's activity, online information:RB1 mutation db, online information:Retinoblastoma protein entry, PTM:Phosphorylated in G1, thereby releasing E2F1 which is then able to activate cell growth. Dephosphorylated at the late M phase. SV40 large T antigen, HPV E7 and adenovirus E1A bind to the underphosphorylated, active form of pRb.,similarity:Belongs to the retinoblastoma protein (RB) family,,subunit:Interacts with ATAD5 (By similarity). The hypophosphorylated form interacts with and sequesters the E2F1 transcription factor. The unphosphorylated form interacts with ARID3B, KDM5A, SUV39H1, MJD2A/JHDM3A and THOC1. Interacts with the N-terminal domain of TAF1. Interacts with AATF, DNMT1, LIN9, LMNA, SUV420H1, SUV420H2, PELP1 and TMPO-alpha. May interact with NDC80. Interacts with EID1 and UBR4. Interacts with ARID4A and KDM5B. Interacts with E4F1. Interacts with adenovirus E1A protein, HPV E7 protein and SV40 large T antigen., tissue specificity: Expressed in the retina.,

研究领域(Research Area)

Stem cell pathway; Cell Cycle G1S; Cell Cycle G2M DNA; Protein Acetylation

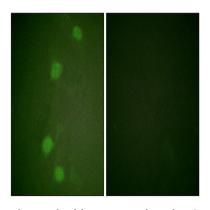
图片 (Image Data)

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产品货号: APRab05351



Immunofluorescence analysis of HeLa cells, using Retinoblastoma (Phospho-Ser249) Antibody. The picture on the right is blocked with the phospho peptide.

注意事项 (Note)

For research use only.

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