

产品名称: Rent1 Rabbit Polyclonal Antibody
产品货号: AP Rab17020



产品概述 (Summary)

产品名称 (Production Name)	Rent1 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

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)	UPF1 UPF1; KIAA0221; RENT1; Regulator of nonsense transcripts 1; ATP-dependent
别名 (Alternative Names)	helicase RENT1; Nonsense mRNA reducing factor 1; NORF1; Up-frameshift suppressor 1 homolog; hUpf1
基因 ID (Gene ID)	5976.0
蛋白 ID (SwissProt ID)	Q92900.The antiserum was produced against synthesized peptide derived from human UPF1. AA range:299-348

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 1:10000-1:20000
蛋白分子量 (Molecular Weight)	110kDa

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研究背景 (Background)

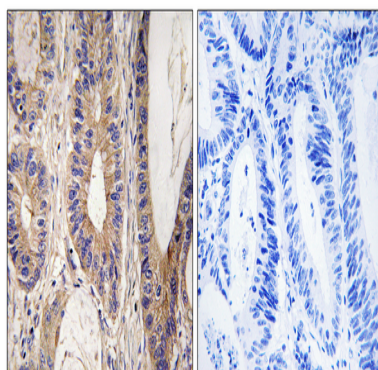
This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein is located only in the cytoplasm. When translation ends, it interacts with the protein that is a functional homolog of yeast Upf2p to trigger mRNA decapping. Use of multiple polyadenylation sites has been noted for this gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014], domain: The [ST]-Q motif constitutes a recognition sequence for kinases from the PI3/PI4-kinase family., function: Part of a post-splicing multiprotein complex. Involved in nonsense-mediated decay (NMD) as part of the SMG1C complex, a mRNA surveillance complex that recognizes and degrades mRNAs containing premature translation termination codons (PTCs). The complex probably acts by associating with ribosomes during translation termination on mRNPs. If an exon junction complex (EJC) is located 50-55 or more nucleotides downstream from the termination codon, RENT1 is phosphorylated by SMG1, triggering nonsense-mediated decay (NMD). Essential for embryonic viability., PTM: Phosphorylated by SMG1; required for formation of mRNA surveillance complexes. Phosphorylated upon DNA damage, probably by ATM or ATR., similarity: Belongs to the DNA2/NAM7 helicase family., similarity: Contains 1 C2H2-type zinc finger., subcellular location: Hyperphosphorylated form is targeted to the P-body, while unphosphorylated protein is distributed throughout the cytoplasm., subunit: Found in a complex with RENT1, RENT2, RENT3A and RENT3B. Found in a complex with PARN. Found in a post-splicing complex with SMG1, NXF1, RBM8A, RENT1, RENT2, RENT3A, RENT3B and RNPS1. Found in a mRNA decay complex with EXOSC2, EXOSC4, EXOSC10, PARN, XRN1, DCP2, RENT1, RENT2 and RENT3B. Interacts with EST1A and RENT2. Component of the SMG1C complex, at least composed of SMG1, SMG8 and SMG9. The SMG1C complex is then recruited on premature translation termination codons (PTCs) to form the ribosome: SURF complex, at least composed of ERF1, ERF3 (ERF3A or ERF3B), EEF2, UPF1/RENT1, SMG1, SMG8 and SMG9. Interacts (when hyperphosphorylated) with PNRC2., tissue specificity: Ubiquitous.,

研究领域 (Research Area)

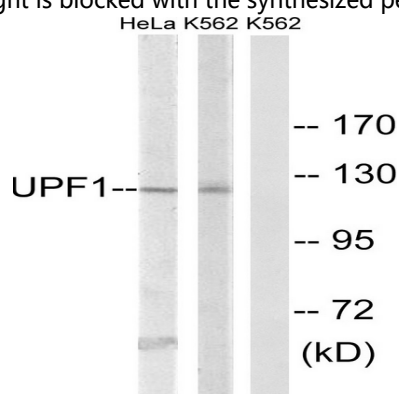
Epigenetics and Nuclear Signaling

图片 (Image Data)

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Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using UPF1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 and HeLa cells, using UPF1 Antibody. The lane on the right is blocked with the synthesized peptide.

注意事项 (Note)

For research use only .