

产品名称: ADAR1 Rabbit Polyclonal Antibody
产品货号: AP Rab06604



产品概述 (Summary)

产品名称 (Production Name)	ADAR1 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)	ADAR ADAR; ADAR1; DSRAD; G1P1; IFI4; Double-stranded RNA-specific adenosine deaminase; DRADA; 136 kDa double-stranded RNA-binding protein; p136; Interferon-inducible protein 4; IFI-4; K88DSRBP
别名 (Alternative Names)	
基因 ID (Gene ID)	103.0
蛋白 ID (SwissProt ID)	P55265.The antiserum was produced against synthesized peptide derived from human ADAR1. AA range:1172-1221

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)	135kDa

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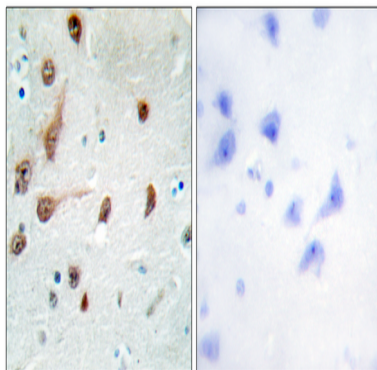
研究背景 (Background)

adenosine deaminase, RNA specific(ADAR) Homo sapiens This gene encodes the enzyme responsible for RNA editing by site-specific deamination of adenosines. This enzyme destabilizes double-stranded RNA through conversion of adenosine to inosine. Mutations in this gene have been associated with dyschromatosis symmetrica hereditaria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2010],caution:The N-terminus of isoform 4 has been derived from EST and genomic sequences.,disease:Defects in ADAR are a cause of dyschromatosis symmetrical hereditaria (DSH) [MIM:127400]; also known as reticulate acropigmentation of Dohi. DSH is a pigmentary genodermatosis of autosomal dominant inheritance characterized by a mixture of hyperpigmented and hypopigmented macules distributed on the dorsal parts of the hands and feet.,function:Converts multiple adenosines to inosines and creates I/U mismatched base pairs in double-helical RNA substrates without apparent sequence specificity. Has been found to modify more frequently adenosines in AU-rich regions, probably due to the relative ease of melting A/U base pairs as compared to G/C pairs. Functions to modify viral RNA genomes and may be responsible for hypermutation of certain negative-stranded viruses. Edits the messenger RNAs for glutamate receptor (GLUR) subunits by site-selective adenosine deamination. Produces low-level editing at the GLUR-B Q/R site, but edits efficiently at the R/G site and HOTSPOT1. Binds to short interfering RNAs (siRNA) without editing them and suppresses siRNA-mediated RNA interference. Binds to ILF3/NF90 and up-regulates ILF3-mediated gene expression.,induction:Isoform 1 is induced by interferon alpha. Isoform 5 is constitutively expressed.,PTM:Sumoylation reduces RNA-editing activity.,similarity:Contains 1 A to I editase domain.,similarity:Contains 2 DRADA repeats.,similarity:Contains 3 DRBM (double-stranded RNA-binding) domains.,subcellular location:Isoform 1 is found predominantly in cytoplasm but appears to shuttle between the cytoplasm and nucleus. Isoform 5 is found exclusively in the nucleolus.,subunit:Homodimer. Isoform 1 interacts with ILF2/NF45 and ILF3/NF90.,tissue specificity:Ubiquitously expressed, highest levels were found in brain and lung.,

研究领域 (Research Area)

Cytosolic DNA-sensing pathway;

图片 (Image Data)



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Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ADAR1 Antibody. The picture on the right is blocked with the synthesized peptide.

注意事项 (Note)

For research use only .