Product Name: ADAR1 Rabbit Polyclonal Antibody

Catalog #: APRab06604



Summary

Production Name ADAR1 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application IHC-P,IF-P,IF-F,ICC/IF,WB,ELISA

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Form Liquid

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type

preservative N.

Purification Affinity purification

Immunogen

Buffer

Gene Name ADAR

ADAR; ADAR1; DSRAD; G1P1; IFI4; Double-stranded RNA-specific adenosine

Alternative Names deaminase; DRADA; 136 kDa double-stranded RNA-binding protein; p136; Interferon-

inducible protein 4; IFI-4; K88DSRBP

Gene ID 103.0

P55265. The antiserum was produced against synthesized peptide derived from human

SwissProt ID
ADAR1. AA range:1172-1221

Application

Dilution Ratio WB 1:500-2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200

Molecular Weight 135kDa

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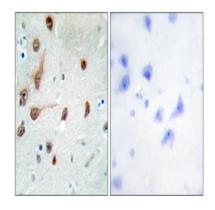
Background

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 lowlevel 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 ILF3mediated 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.,

Research Area

Cytosolic DNA-sensing pathway;

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.

Note

For research use only.

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