



Rabbit anti-Human ADAR1 polyclonal antibody (DPABH-01398)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description 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.

Immunogen	Synthetic peptide derived from a region of Human ADAR1 at C-terminal
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	IHC-P
Format	Liquid
Size	100 µg
Buffer	pH: 7.40; Constituents: 49% PBS, 0.88% Sodium chloride, 50% Glycerol
Preservative	0.02% Sodium Azide

Storage

Store at -20°C. Stable for 12 months at -20°C

GENE INFORMATION

Gene Name	ADAR adenosine deaminase, RNA-specific [Homo sapiens]
Official Symbol	ADAR
Synonyms	ADAR; adenosine deaminase, RNA-specific; DSH; AGS6; G1P1; IFI4; P136; ADAR1; DRADA; DSRAD; IFI-4; K88DSRBP; double-stranded RNA-specific adenosine deaminase; dsRNA adenosine deaminase; interferon-induced protein 4; interferon-inducible protein 4; RNA-specific adenosine deaminase; adenosine deaminase acting on RNA 1-A; 136 kDa double-stranded RNA-binding protein;
Entrez Gene ID	103
Protein Refseq	NP_001020278.1
UniProt ID	P55265
Pathway	C6 deamination of adenosine; Cytosolic DNA-sensing pathway; Formation of editosomes by ADAR proteins; Immune System
Function	DNA binding; double-stranded RNA adenosine deaminase activity; double-stranded RNA adenosine deaminase activity; metal ion binding