

For Research Use Only

ADAR1 Polyclonal antibody

Catalog Number: 14330-1-AP

17 Publications



Basic Information

Catalog Number:

14330-1-AP

Size:

150ul, Concentration: 220 µg/ml by Nanodrop and 220 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5609

GenBank Accession Number:

BC038227

GeneID (NCBI):

103

Full Name:

adenosine deaminase, RNA-specific

Calculated MW:

136 kDa

Observed MW:

110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:1000

for WB

IHC 1:50-1:500

IF 1:20-1:200

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

CoIP, IF, IHC, WB

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, rat, mouse

Positive Controls:

WB: HeLa cells, HepG2 cells

IP: Y79 cells,

IHC: human gliomas tissue, human stomach cancer tissue, human colon cancer tissue, mouse colon tissue, mouse brain tissue

IF: HepG2 cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

ADAR1 is also named as ADAR1, DSRAD, G1P1, IFI4. It convert selected adenosine residues into inosine in substrate RNAs containing a relatively short dsRNA region (PMID:15556947). The human ADAR1 gene specifies two size forms of RNA-specific adenosine deaminase, an IFN inducible 150 kDa protein and a constitutively expressed N-terminally truncated 110 kDa protein, encoded by transcripts with alternative exon 1 structures that initiate from different promoters (PMID:1111054). It has 5 isoforms produced by alternative promoter usage and alternative splicing. Defects in ADAR are a cause of dyschromatosis symmetrical hereditaria (DSH). ADAR1 can form respective homodimers, and this association is essential for its enzymatic activities (PMID:17428802).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaonan Zhang	34568523	Neurobiol Stress	WB
Wenjing Chen	36417848	Cell Rep	WB
Masashi Takizawa	32439581	Toxicol Lett	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

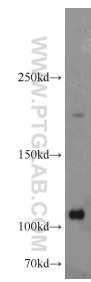
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

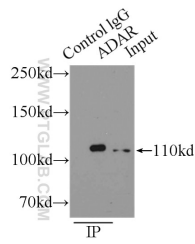
E: proteintech@ptglab.com
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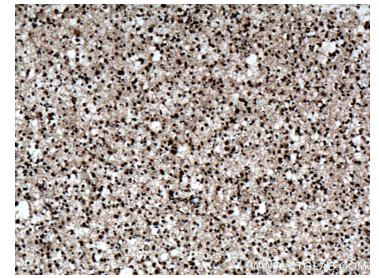
Selected Validation Data



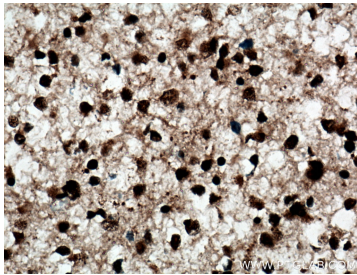
HeLa cells were subjected to SDS PAGE followed by western blot with 14330-1-AP (ADAR1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



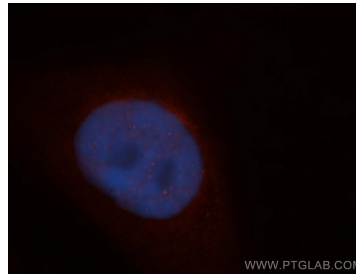
IP Result of anti-ADAR1 (IP:14330-1-AP, 4ug; Detection:14330-1-AP 1:500) with Y79 cells lysate 3000ug.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 14330-1-AP (ADAR1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 14330-1-AP (ADAR1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells, using ADAR antibody 14330-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).