

For Research Use Only

ADAR1 Polyclonal antibody

Catalog Number: 14330-1-AP

23 Publications



Basic Information

Catalog Number:

14330-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5609

GenBank Accession Number:

BC038227

GeneID (NCBI):

103

UNIPROT ID:

P55265

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat

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

Positive Controls:

WB : HeLa cells, A431 cells, HepG2 cells, Jurkat cells

IP : HepG2 cells,

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

IF/ICC : HeLa cells,

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:11111054). 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

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

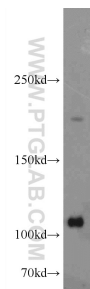
T: 4006900926

E: Proteintech-CN@ptglab.com

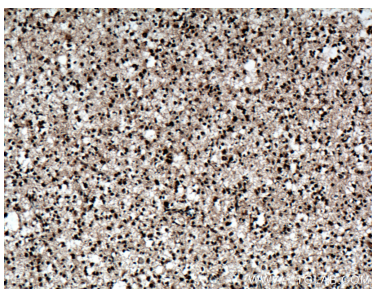
W: ptgcn.com

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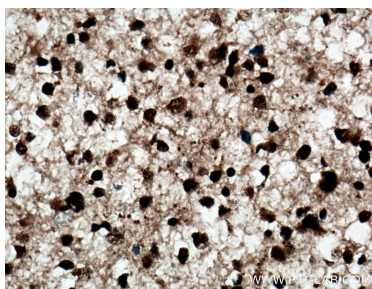
Selected Validation Data



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.



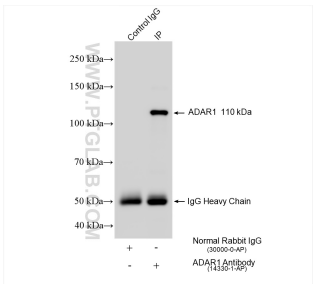
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 14330-1-AP (ADAR1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



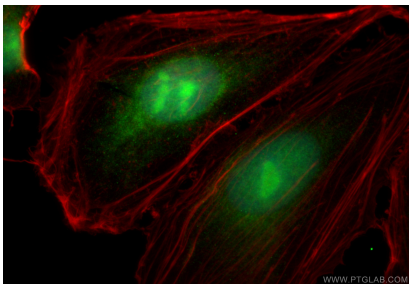
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 14330-1-AP (ADAR1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 14330-1-AP (ADAR1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-ADAR1 (IP:14330-1-AP, 4ug; Detection:14330-1-AP 1:800) with HepG2 cells lysate 1320 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ADAR1 antibody (14330-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).