

ADAR1 Polyclonal antibody

Catalog Number: 14330-1-AP 17 Publications

Basic Information

| | | |
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| Catalog Number: 14330-1-AP | GenBank Accession Number: BC038227 | Purification Method: Antigen affinity purification |
| Size: 500 µg/ml | GeneID (NCBI): 103 | Recommended Dilutions: WB 1:500-1:2000 |
| Source: Rabbit | UNIPROT ID: P55265 | IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate |
| Isotype: IgG | Full Name: adenosine deaminase, RNA-specific | IHC 1:50-1:500 |
| Immunogen Catalog Number: AG5609 | Calculated MW: 136 kDa | IF 1:20-1:200 |
| | Observed MW: 110 kDa | |

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, WB

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, rat, mouse

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, 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,

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:

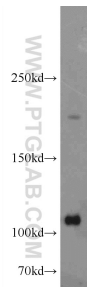
T: 4006900926

E: Proteintech-CN@ptglab.com

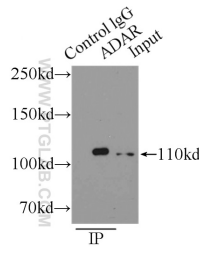
W: ptgcn.com

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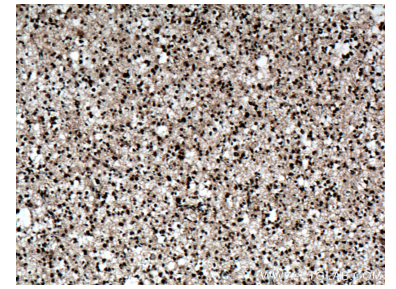
Selected Validation Data



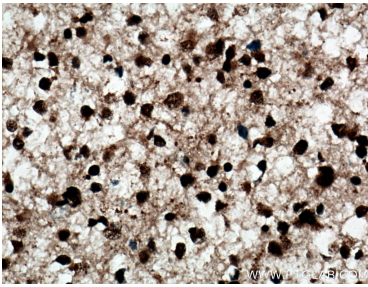
HeLa cells were subjected to SDS PAGE followed by western blot with 14330-1-AP (ADAR1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



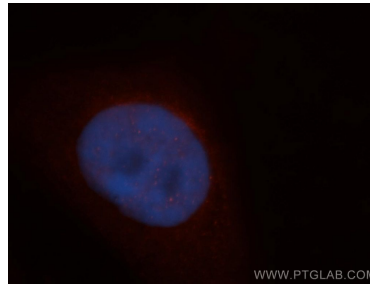
IP result of anti-ADAR1 (IP:14330-1-AP, 4ug; Detection:14330-1-AP 1:500) with Y79 cells lysate 3000ug.



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).