ADAR1 Polyclonal antibody
Catalog Number: 14330-1-AP

Basic Information
Catalog Number: 14330-1-AP
Size: 150μL, Concentration: 220 μg/ml by Bradford method using BSA as the standard.
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG5609
GenBank Accession Number: BC038227
Gene ID (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:
IF, IHC, WB
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

Background Information
ADAR1 is also named as ADAR1, DSRAD, G1P1, IFI4. It converts 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). ADAR1s can form respective homodimers, and this association is essential for its enzymatic activities (PMID:17428802).

Notable Publications
Author | Pubmed ID | Journal | Application
--- | --- | --- | ---
Masashi Takizawa | 32439581 | Toxicol Lett | IHC
Yan Sun | 32514012 | Cell Death Dis | WB
Xiaonan Zhang | 33412228 | Behav Brain Res | WB, IF

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: (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
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).