

## ADAR Rabbit mAb

Catalog No: #49758



Package Size: #49758-1 50ul #49758-2 100ul

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## Description

Product Name	ADAR Rabbit mAb
Clone No.	JU99-33
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	136 kDa double-stranded RNA-binding protein antibody 136kDa double stranded RNA binding protein antibody Adar 1 antibodyADAR antibody Adar1 antibody Adenosine deaminase acting on RNA 1 A antibody Adenosine deaminase RNA specific 1 antibody Adenosine deaminase RNA specific antibody Adenosine deaminase that act on RNA antibody AGS6 antibody AV242451 antibody Double stranded RNA specific adenosine deaminase antibody Double-stranded RNA-specific adenosine deaminase antibody Double-stranded RNA-specific editase Adar antibody DRADA antibody Dsh antibody Dsrad antibody DSRAD_HUMAN antibody dsRNA adenosine deaminase antibody EC 3.5.4.- antibody G1P1 antibody IFI 4 antibody IFI-4 antibody IFI4 antibody Ifi4 protein antibody Interferon induced protein 4 antibody Interferon inducible protein 4 antibody Interferon-inducible protein 4 antibody K88DSRBP antibody mZaADAR antibody P136 antibody Pre-mRNA adenosine deaminase antibody RNA adenosine deaminase 1 antibody RNA-editing deaminase 1 antibody RNA-editing enzyme 1 antibody
Accession No.	Swiss-Prot#:P55265
Calculated MW	150 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

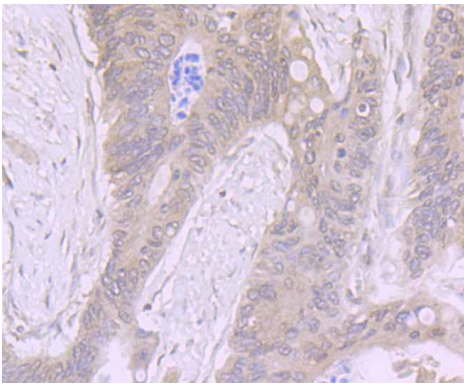
## Application Details

WB: 1:500-1:2,000

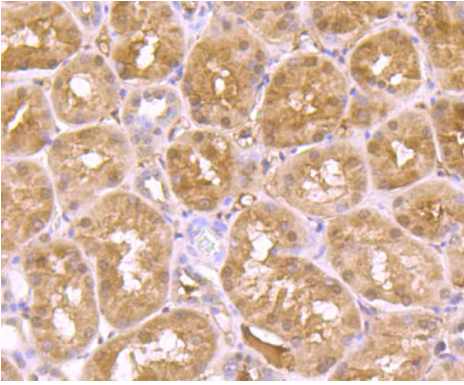
IHC: 1:50-1:200

ICC: 1:50-1:200

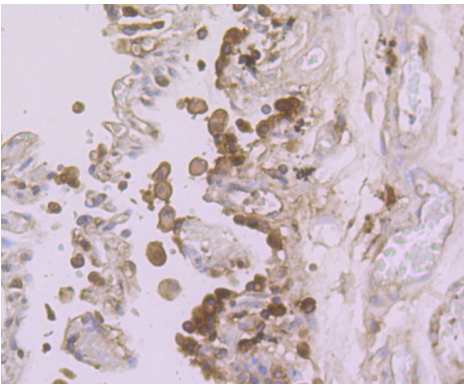
## Images



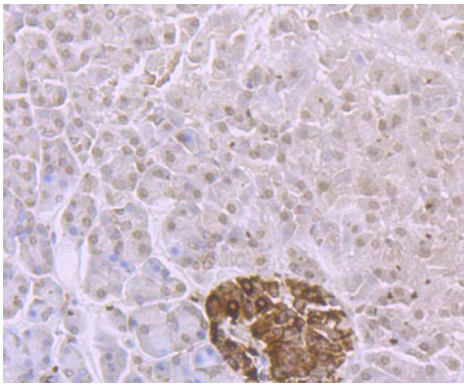
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-ADAR antibody. Counter stained with hematoxylin.



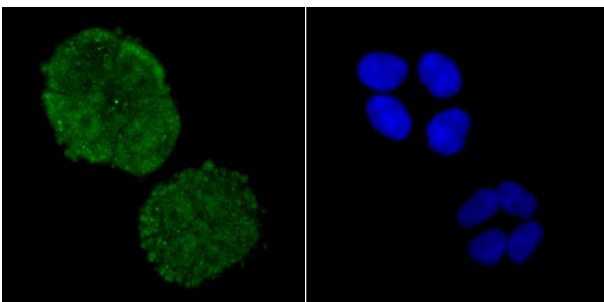
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ADAR antibody. Counter stained with hematoxylin.



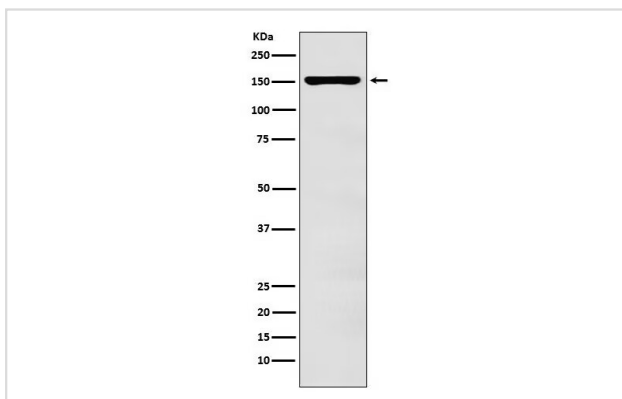
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-ADAR antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-ADAR antibody. Counter stained with hematoxylin.



ICC staining ADAR in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Western blot analysis of ADAR1 expression in Ramos cell lysate.

## Background

RNA-specific adenosine deaminase (ADAR1, DSH, IFI4, p136, DRADA, DSRAD, K88dsRBP) mediates RNA editing by destabilizing double stranded RNA through deamination of adenosine to inosine in structured or double-stranded RNAs. ADAR1 is expressed from an interferon-response promoter and has a Z-DNA/Z-RNA binding domain at its N-terminus. ADAR1 co-localizes with SUMO-1 in a subnucleolar region that is distinct from the fibrillar center, the dense fibrillar component and the granular component. Localization of nuclear ADAR1 is under the influence of a nucleolar localization signal (NoLS) in the middle of ADAR1 and the exporting activity of the nuclear exporter signal (NES) near the N terminus. ADAR1 upregulates nuclear factor 90 (NF90)-mediated gene expression by interacting with NF110, NF90 and NF45. ADAR1 binds short interfering RNA (siRNA), and gene silencing by siRNA is significantly more effective in mouse fibroblasts homozygous for an ADAR1 null mutation than in wild-type cells. ADAR1 may limit the efficacy of siRNA in mammalian cells.

## References

1. Kim U et al. Molecular cloning of cDNA for double-stranded RNA adenosine deaminase, a candidate enzyme for nuclear RNA editing. *Proc Natl Acad Sci U.S.A.* 91:11457-11461 (1994).
2. Patterson J B et al. Expression and regulation by interferon of a double-stranded-RNA-specific adenosine deaminase from human cells: evidence for two forms of the deaminase. *Mol Cell Biol* 15:5376-5388 (1995).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.