

Rabbit ADARB1 Polyclonal Antibody | anti-ADARB1 antibody

ADARB1 Antibody

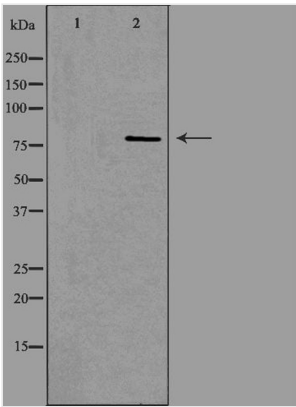
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323929	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

ADARB1; Polyclonal Antibody; ADARB1 Antibody; ADARB 1; 1700057H01Rik; ADAR2; ADAR2a; ADAR2a L1; ADAR2a L2; ADAR2a L3; ADAR2b; ADAR2c; ADAR2d; ADAR2g; Adarb1; Adenosine deaminase; RNA specific; 2; B1 (homolog of rat RED1); B1 (RED1 homolog rat); B1; AW124433; AW558573; BB220382; D10Bwg0447e; Double stranded RNA specific editase 1; Double-stranded RNA-specific editase 1; DRABA2; DRADA2; dsRNA adenosine deaminase; EC 3.5.-.; Human dsRNA adenosine deaminase DRADA2; Human dsRNA adenosine deaminase DRADA2b; EC 3.5; OTTHUMP00000115341; OTTHUMP00000115342; RED 1; RED1_HUMAN; RNA editase; RNA editase 1; RNA editing deaminase 1; RNA editing enzyme 1; rat; homolog of; RNA specific adenosine deaminase B1; RNA-editing deaminase 1; RNA-editing enzyme 1; anti-ADARB1 antibody

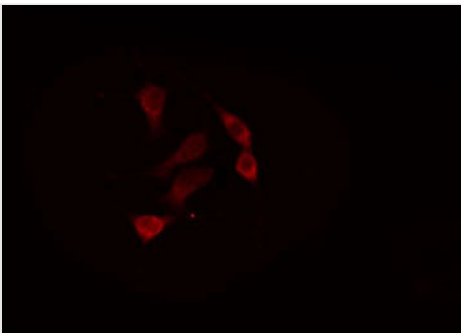
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ADARB1 antibody detects endogenous levels of total ADARB1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	701
Applicable Applications for anti-ADARB1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus. Nucleus > Nucleolus. Shuttles between nucleoli and the nucleoplasm.
Tissue Specificity	Highly expressed in brain and heart and at lower levels in placenta. Fair expression in lung, liver and kidney. Detected in brain, heart, kidney, lung and liver (at protein level). Isoform 5 is high expressed in hippocampus and colon. Isoform 5 is expressed in pediatric astrocytomas and the protein has a decreased RNA-editing activity. The decrease in RNA editing correlates with the grade of malignancy of the tumors, with the high grade tumors showing lower editing is seen.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



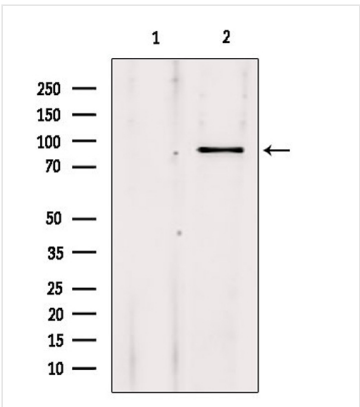
WB (Western Blot)

Western blot analysis of extracts from HepG2 cells, using ADARB1 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA323929 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from 293, using ADARB1 Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ADARB1 antibody

Function: Catalyzes the hydrolytic deamination of adenosine to inosine in double-stranded RNA (dsRNA) referred to as A-to-I RNA editing. This may affect gene expression and function in a number of ways that include mRNA translation by changing codons and hence the amino acid sequence of proteins; pre-mRNA splicing by altering splice site recognition sequences; RNA stability by changing sequences involved in nuclease recognition; genetic stability in the case of RNA virus genomes by changing sequences during viral RNA replication; and RNA structure-dependent activities such as microRNA production or targeting or protein-RNA interactions. Can edit both viral and cellular RNAs and can edit RNAs at multiple sites (hyper-editing) or at specific sites (site-specific editing). Its cellular RNA substrates include: bladder cancer-associated protein (BLCAP), neurotransmitter receptors for glutamate (GRIA2 and GRIK2) and serotonin (HTR2C), GABA receptor (GABRA3) and potassium voltage-gated channel (KCNA1). Site-specific RNA editing of transcripts encoding these proteins results in amino acid substitutions which consequently alter their functional activities. Edits GRIA2 at both the Q/R and R/G sites efficiently but converts the adenosine in hotspot1 much less efficiently. Can exert a proviral effect towards human immunodeficiency virus type 1 (HIV-1) and enhances its replication via both an editing-dependent and editing-independent mechanism. The former involves editing of adenosines in the 5'UTR while the latter occurs via suppression of EIF2AK2/PKR activation and function. Can inhibit cell proliferation and migration and can stimulate exocytosis. Subunit Structure: Homodimer. Homodimerization is essential for its catalytic activity. Can form heterodimers with isoform 5 of ADAR/ADAR1.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501919
NCBI GeneID	104

NCBI Accession #	NP_001103.1
NCBI GenBank Nucleotide #	NM_001112.3
UniProt Accession #	P78563 ; O00395 ; O00465 ; O00691 ; O00692 ; P78555 ; A6NFK8 ; A6NJ84 ; C3TTQ1 ; C3TTQ2 ; C9JUP4 ; G5E9B4
Molecular Weight	Observed: 80 kD Predicted: 81 kDa
NCBI Official Full Name	double-stranded RNA-specific editase 1 isoform 1
NCBI Official Synonym Full Names	adenosine deaminase, RNA specific B1
NCBI Official Symbol	ADARB1
NCBI Official Synonym Symbols	RED1; ADAR2; DRABA2; DRADA2
NCBI Protein Information	double-stranded RNA-specific editase 1
UniProt Protein Name	Double-stranded RNA-specific editase 1
UniProt Gene Name	ADARB1
UniProt Synonym Gene Names	ADAR2; DRADA2; RED1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/adarb1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323929>