

AP06707PU-N**Polyclonal Antibody to ADARB1 / ADAR2 - Aff - Purified**

Alternate names:	DRADA2, Double-stranded RNA-specific editase 1, RED1, RNA-editing deaminase 1, RNA-editing enzyme 1, dsRNA adenosine deaminase
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	ADAR2, also designated adenosine deaminase, RNA-specific (RED1), RNA-editing enzyme 1, DRABA2, DRADA2, ADAR2 α -L1, ADAR2 α -L2 and ADAR2 α -L3, mediates RNA editing by destabilizing RNA through deamination of adenosine to inosine. ADAR2 is responsible for pre-mRNA editing of the glutamate receptor subunit B by site-specific deamination of adenosines. It can modify its own pre-mRNA and generate new splice sites. Translocation of endogenous ADAR2 from the nucleolus to the nucleoplasm results in increased editing of endogenous ADAR2 substrates. Alternative splicing of this gene results in several transcript variants that may influence RNA editing. RNA editing involves the deamination of adenosines at specific sites, the result of which can be a change in the amino acid sequence of the protein so that it differs from that predicted by the sequence of the DNA.
Uniprot ID:	P78563
NCBI:	NP_001103.1
GeneID:	104
Host:	Rabbit
Immunogen:	Synthetic peptide, corresponding to amino acids 480-530 of Human ADAR2.
Format:	State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Purification: Affinity Chromatography using epitope-specific immunogen. Buffer System: PBS, pH 7.2 Preservatives: 0.05% sodium azide
Applications:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections: 1/50 - 1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	~82 kDa
Specificity:	This antibody detects endogenous levels of ADAR2 protein.
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse and Rat.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:

Western blot (WB) analysis of ADAR2 antibody (Cat.-No.: AP06707PU-N) at 1/500 dilution

Lane1:HepG2 whole cell lysate

Lane2:MCF-7 whole cell lysate

Lane3:Mouse brain tissue lysate

Lane4:Rat brain tissue lysate

