

Product datasheet for **AP06707PU-S**

RED1 (ADARB1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 480-530 of Human ADAR2.
Specificity:	This antibody detects endogenous levels of ADAR2 protein.
Formulation:	PBS, pH 7.2, with 50% glycerol State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.02% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~82 kDa
Gene Name:	adenosine deaminase, RNA specific B1
Database Link:	Entrez Gene 104 Human P78563



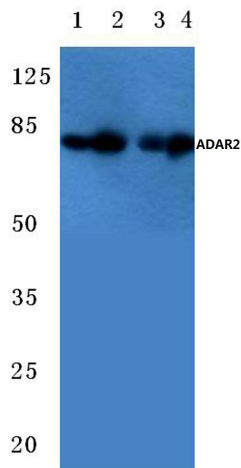
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Background:

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.

Synonyms:

DRADA2, RED1, RNA-editing enzyme 1

Product images:

Western blot (WB) analysis of ADAR2 antibody at 1/500 dilution Lane 1:HepG2 whole cell lysate Lane 2:MCF-7 whole cell lysate Lane 3:Mouse brain tissue lysate Lane 4:Rat brain tissue lysate