

**ADAR2 Polyclonal Antibody**

<b>Catalog No :</b>	YT0119
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	ADAR2
<b>Gene Name :</b>	ADARB1
<b>Protein Name :</b>	Double-stranded RNA-specific editase 1
<b>Human Gene Id :</b>	104
<b>Human Swiss Prot No :</b>	P78563
<b>Mouse Gene Id :</b>	110532
<b>Mouse Swiss Prot No :</b>	Q91ZS8
<b>Rat Gene Id :</b>	25367
<b>Rat Swiss Prot No :</b>	P51400
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human ADARB1. AA range:481-530
<b>Specificity :</b>	ADAR2 Polyclonal Antibody detects endogenous levels of ADAR2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

---

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

---

**Observed Band :** 80kD

---

**Background :** This gene encodes the enzyme responsible for pre-mRNA editing of the glutamate receptor subunit B by site-specific deamination of adenosines. Studies in rat found that this enzyme acted on its own pre-mRNA molecules to convert an AA dinucleotide to an AI dinucleotide which resulted in a new splice site. Alternative splicing of this gene results in several transcript variants, some of which have been characterized by the presence or absence of an ALU cassette insert and a short or long C-terminal region. [provided by RefSeq, Jul 2008],

---

**Function :** alternative products:Additional isoforms seem to exist,cofactor:Binds 1 inositol hexakisphosphate (IP6) per subunit.,function:Editing of the messenger RNAs for glutamate receptor (GluR) subunits by site-selective adenosine deamination. Edits both the GluR-B Q/R and R/G sites efficiently but converts the adenosine in hotspot1 much less efficiently.,similarity:Contains 1 A to I editase domain.,similarity:Contains 2 DRBM (double-stranded RNA-binding) domains.,

---

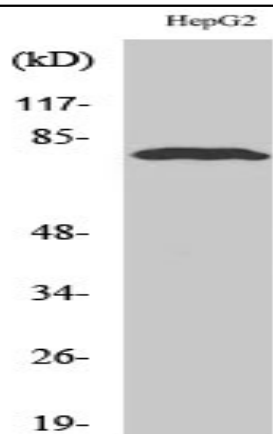
**Subcellular Location :** Nucleus . Nucleus, nucleolus . Shuttles between nucleoli and the nucleoplasm. . ; [Isoform 1]: Nucleus . Nucleus, nucleolus . ; [Isoform 2]: Nucleus . Nucleus, nucleolus .

---

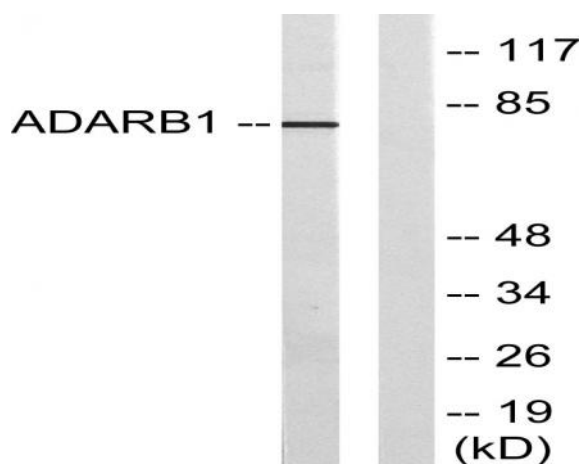
**Expression :** Highly expressed in brain and heart and at lower levels in placenta. Fair expression in lung, liver and kidney. Detected in brain, heart, kidney, lung and liver (at protein level). . ; [Isoform 5]: Highly expressed in hippocampus and colon. Expressed in pediatric astrocytomas and the 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.

---

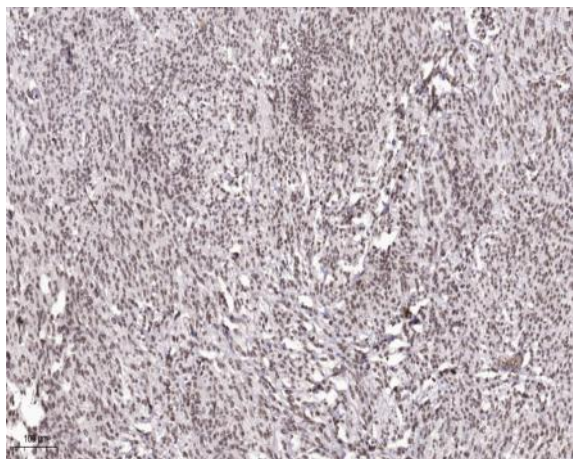
## Products Images



Western Blot analysis of various cells using ADAR2 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Western blot analysis of lysates from HepG2 cells, using ADARB1 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Small intestinal stromal tumor. 1, Tris-EDTA, pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight). 3, Secondary antibody was diluted at 1:200(room temperature, 45min).