

ADAR2 Polyclonal Antibody

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

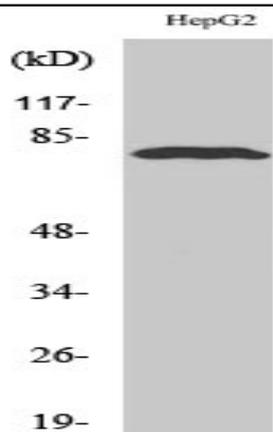
Background : This gene encodes the enzyme responsible for pre-mRNA editing of the glutamate receptor subunit B by site-specific deamination of adenosines. Studies in rat found that this enzyme acted on its own pre-mRNA molecules to convert an AA dinucleotide to an AI dinucleotide which resulted in a 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.,

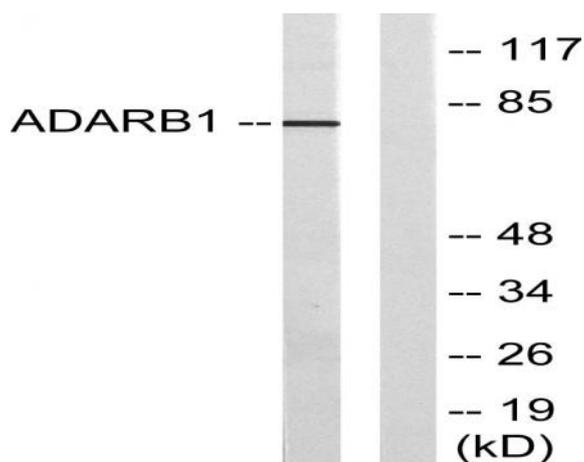
Subcellular Location : Nucleus . Nucleus, nucleolus . Shuttles between nucleoli and the nucleoplasm. . ; [Isoform 1]: Nucleus . Nucleus, nucleolus . ; [Isoform 2]: Nucleus . Nucleus, nucleolus .

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.

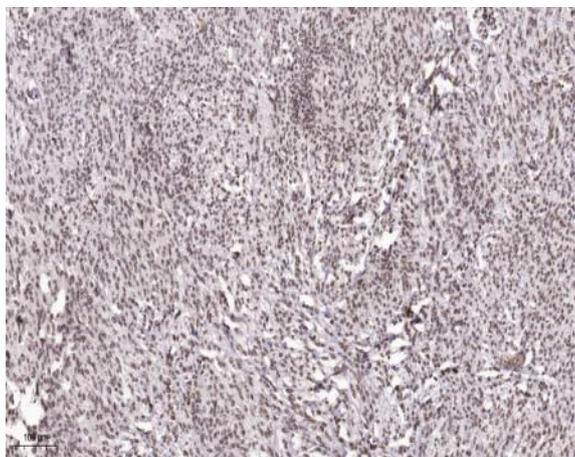
Products Images



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).