

## Basic Information

<b>Product Name</b>	Anti-ADAR Antibody	
<b>Gene Name</b>	ADAR	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, ICC/IF, ELISA	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	E.coli-derived human ADAR1/ADAR recombinant protein (Position: M1-E1152).	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	110 kDa/150 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

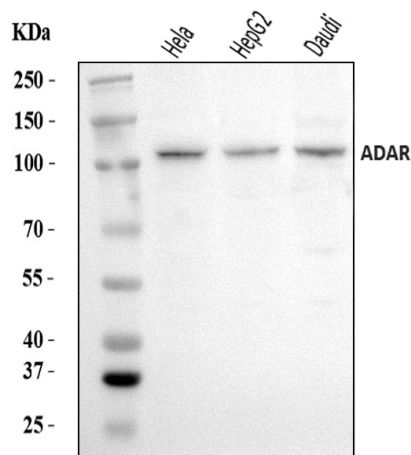
## Background Information

Double-stranded RNA-specific adenosine deaminase is an enzyme that in humans is encoded by the ADAR gene. This gene encodes the enzyme responsible for RNA editing by site-specific deamination of adenosines. This enzyme destabilizes double-stranded RNA through conversion of adenosine to inosine. Mutations in this gene have been associated with dyschromatosis symmetrica hereditaria. Alternative splicing results in multiple transcript variants.

## Reference

Anti-ADAR Antibody被引用在1文献中。

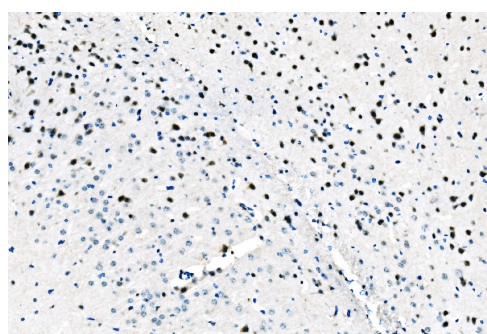
## Selected Validation Data



Western blot analysis of ADAR using anti-ADAR antibody (A00869-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

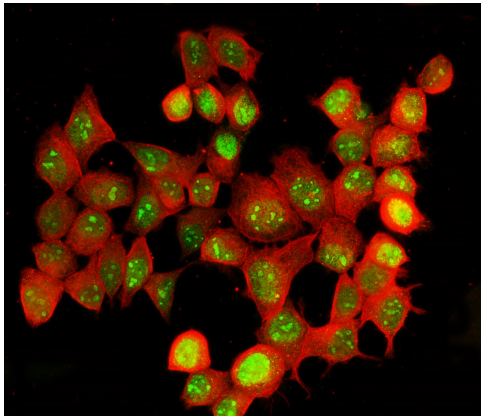
Lane 1: HELA whole cell lysates,  
Lane 2: HEPG2 whole cell lysates,  
Lane 3: Daudi whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ADAR antigen affinity purified polyclonal antibody (A00869-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ADAR at approximately 110 kDa/150 kDa. The expected band size for ADAR is at 136 kDa.



IHC analysis of ADAR using anti-ADAR antibody (A00869-2).

ADAR was detected in a paraffin-embedded section of mouse brain tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-ADAR Antibody (A00869-2) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of ADAR using anti-ADAR antibody (A00869-2) and anti-Beta Tubulin antibody (M05613-3).

ADAR was detected in an immunocytochemical section of MCF-7 cells. The section was incubated with rabbit anti-ADAR Antibody (A00869-2) at a dilution of 1:100. Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and Fluoro594-conjugated Anti-mouse IgG Secondary Antibody (red)(Catalog#BA1141) were used as secondary antibody.