

Rabbit ADAR1/ADAR Polyclonal Antibody | anti-ADAR antibody

Anti-ADAR1/ADAR Antibody Picoband

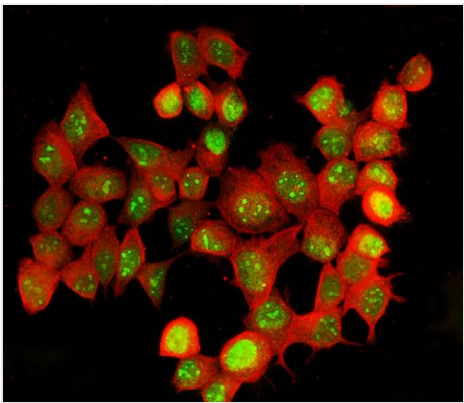
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19410	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, ELISA

PRODUCT SYNONYMS

ADAR1/ADAR; Polyclonal Antibody; Anti-ADAR1/ADAR Antibody Picoband; anti-ADAR antibody

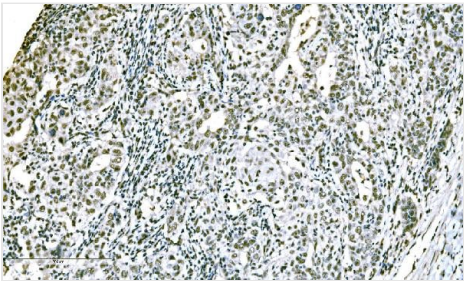
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ADAR antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), ELISA
Application Notes	WB: 0.25-0.5 ug/ml, Human IHC-P: 2-5 ug/ml, Human, Mouse, Rat ICC/IF: 5 ug/ml, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P) and ICC.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human ADAR1/ADAR recombinant protein (Position: M1-E1152).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



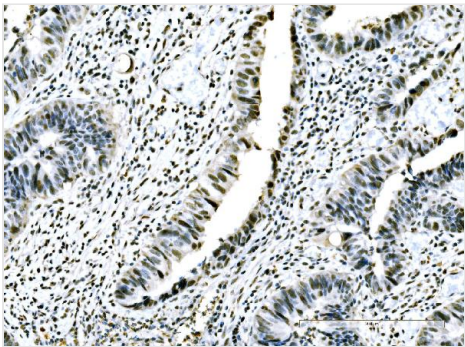
IF (Immunofluorescence)

Figure 6. IF analysis of ADAR1/ADAR using anti-ADAR1/ADAR antibody (AAA19410) and Anti-Beta Tubulin Antibody (M01857-3).ADAR1/ADAR was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ADAR1/ADAR Antibody (AAA19410) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG and DyLight594 Conjugated Goat Anti-Mouse IgG (BA1141) were used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



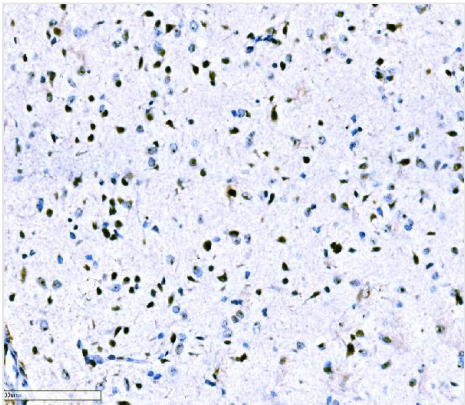
IHC (Immunohistochemistry)

Figure 4. IHC analysis of ADAR1/ADAR using anti-ADAR1/ADAR antibody (AAA19410).ADAR1/ADAR was detected in a paraffin-embedded section of human renal pelvis squamous metaplasia tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ADAR1/ADAR Antibody (AAA19410) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



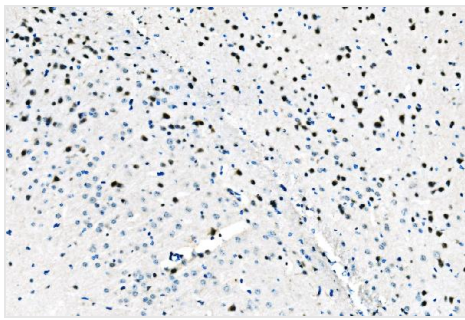
IHC (Immunohistochemistry)

Figure 5. IHC analysis of ADAR1/ADAR using anti-ADAR1/ADAR antibody (AAA19410).ADAR1/ADAR was detected in a paraffin-embedded section of human differentiated adenocarcinoma of the rectum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ADAR1/ADAR Antibody (AAA19410) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



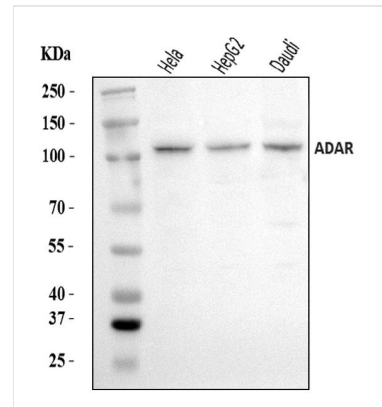
IHC (Immunohistochemistry)

Figure 3. IHC analysis of ADAR1/ADAR using anti-ADAR1/ADAR antibody (AAA19410).ADAR1/ADAR was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ADAR1/ADAR Antibody (AAA19410) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of ADAR1/ADAR using anti-ADAR1/ADAR antibody (AAA19410).ADAR1/ADAR was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-ADAR1/ADAR Antibody (AAA19410) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ADAR1/ADAR using anti-ADAR1/ADAR antibody (AAA19410).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human Daudi whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ADAR1/ADAR antigen affinity purified polyclonal antibody (#AAA19410) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ADAR1/ADAR at approximately 110 kDa. The expected band size for ADAR1/ADAR is at 136 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ADAR antibody	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.
Product Categories/Family for anti-ADAR antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	70167113
NCBI GeneID	103
NCBI Accession #	NP_001020278.1
NCBI GenBank Nucleotide #	NM_001025107.2
UniProt Accession #	P55265; O15223; O43859; O43860; Q9BYM3; Q9BYM4; B1AQQ9; B1AQR0; D3DV76
Molecular Weight	136,066 Da
NCBI Official Full Name	double-stranded RNA-specific adenosine deaminase isoform d
NCBI Official Synonym Full Names	adenosine deaminase, RNA-specific
NCBI Official Symbol	ADAR
NCBI Official Synonym Symbols	DSH; AGS6; G1P1; IFI4; P136; ADAR1; DRADA; DSRAD; IFI-4; K88DSRBP
NCBI Protein Information	double-stranded RNA-specific adenosine deaminase; dsRNA adenosine deaminase; interferon-induced protein 4; interferon-inducible protein 4; adenosine deaminase acting on RNA 1-A; 136 kDa double-stranded RNA-binding protein
UniProt Protein Name	Double-stranded RNA-specific adenosine deaminase

UniProt Gene Name	ADAR
UniProt Synonym Gene Names	ADAR1; DSRAD; G1P1; IFI4; DRADA; p136; IFI-4
UniProt Entry Name	DSRAD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/adar1-adar-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-elisa/19410>