




Anti-ADAR1 antibody ab16138

1 Abreviews

Overview

Product name	Anti-ADAR1 antibody
Description	Sheep polyclonal to ADAR1
Host species	Sheep
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Rat Predicted to work with: Mouse, Human 
Immunogen	Fusion protein: SFRARRDLLQLSYGEAKKAARDYDLAKNYFKKSLRDMGYGNWISKPQEEK NFYLCVPVND, corresponding to amino acids 1116-1176 of Rat ADAR1. The fusion protein was constructed in the pGEX-KG vector by inserting a fragment corresponding to nucleotides +3346 through +3525 of ADAR1 at the XbaI and XhoI sites in the vector.  Run BLAST with Expasy  Run BLAST with NCBI
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.08% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Purification notes	Purified by Ammonium sulfate precipitation. This antibody is provided as a 0.2µm sterile filtered solution.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab16138 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.

Target

Function

Converts multiple adenosines to inosines and creates I/U mismatched base pairs in double-helical RNA substrates without apparent sequence specificity. Has been found to modify more frequently adenosines in AU-rich regions, probably due to the relative ease of melting A/U base pairs as compared to G/C pairs. Functions to modify viral RNA genomes and may be responsible for hypermutation of certain negative-stranded viruses. Edits the messenger RNAs for glutamate receptor (GLUR) subunits by site-selective adenosine deamination. Produces low-level editing at the GLUR-B Q/R site, but edits efficiently at the R/G site and HOTSPOT1. Binds to short interfering RNAs (siRNA) without editing them and suppresses siRNA-mediated RNA interference. Binds to ILF3/NF90 and up-regulates ILF3-mediated gene expression.

Tissue specificity

Ubiquitously expressed, highest levels were found in brain and lung.

Involvement in disease

Defects in ADAR are a cause of dyschromatosis symmetrical hereditaria (DSH) [MIM:127400]; also known as reticulate acropigmentation of Dohi. DSH is a pigmentary genodermatosis of autosomal dominant inheritance characterized by a mixture of hyperpigmented and hypopigmented macules distributed on the dorsal parts of the hands and feet.

Sequence similarities

Contains 1 A to I editase domain.
Contains 2 DRADA repeats.
Contains 3 DRBM (double-stranded RNA-binding) domains.

Post-translational modifications

Sumoylation reduces RNA-editing activity.

Cellular localization

Cytoplasm. Nucleus > nucleolus. Isoform 1 is found predominantly in cytoplasm but appears to shuttle between the cytoplasm and nucleus. Isoform 5 is found exclusively in the nucleolus.

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