


## Product datasheet

### Anti-ADAR1 antibody ab226188

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#### Overview

<b>Product name</b>	Anti-ADAR1 antibody
<b>Description</b>	Rabbit polyclonal to ADAR1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide within Human ADAR1 aa 950-1000. The exact sequence is proprietary. (NP_001102.2). Database link: <a href="#">P55265</a>
<b>Positive control</b>	IHC-P: Human ovarian carcinoma tissue. WB: HEK-293T, HeLa and Jurkat whole cell lysate ( <a href="#">ab7899</a> ). IP: HEK-293T whole cell lysate.
<b>General notes</b>	<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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7 Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate  pH 7 to 8
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab226188 was affinity purified using an epitope specific to ADAR1 immobilized on solid support.

<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

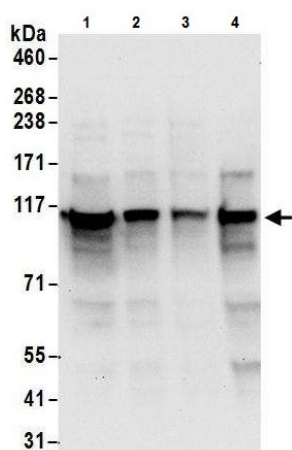
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab226188 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>IHC-P</b>		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
<b>WB</b>		1/1000 - 1/5000. Predicted molecular weight: 136 kDa.
<b>IP</b>		Use at 2-10 µg/mg of lysate.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Ubiquitously expressed, highest levels were found in brain and lung.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Contains 1 A to I editase domain. Contains 2 DRADA repeats. Contains 3 DRBM (double-stranded RNA-binding) domains.
<b>Post-translational modifications</b>	Sumoylation reduces RNA-editing activity.
<b>Cellular localization</b>	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.

## Images



Western blot - Anti-ADAR1 antibody (ab226188)

**All lanes :** Anti-ADAR1 antibody (ab226188) at 0.4 µg/ml

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 50 µg

**Lane 2 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate at 15 µg

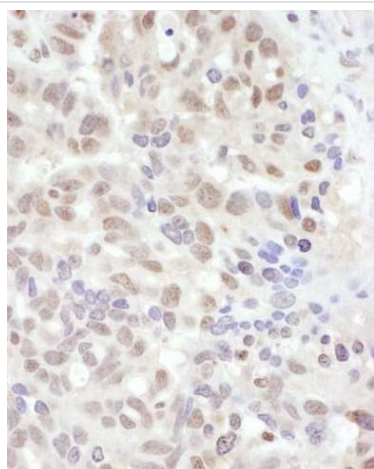
**Lane 3 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 50 µg

**Lane 4 :** Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate at 50 µg

Developed using the ECL technique.

**Predicted band size:** 136 kDa

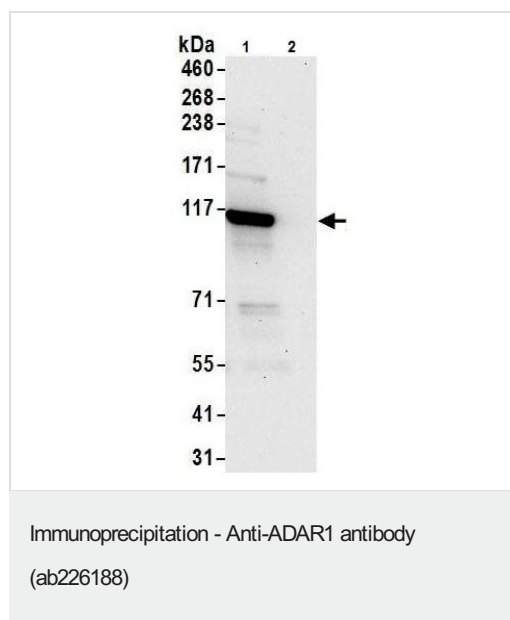
**Exposure time:** 10 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAR1 antibody (ab226188)

Formalin-fixed, paraffin-embedded human ovarian carcinoma tissue stained for ADAR1 using ab226188 at 1/1000 dilution in immunohistochemical analysis.

Detection: DAB staining.



ADAR1 was immunoprecipitated from HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate (1 mg for IP, 20% of IP loaded) with ab226188 at 6 µg/mg lysate. Western blot was performed from the immunoprecipitate using ab226188 at 1 µg/ml.

Lane 1: ab226188 IP in HEK-293T whole cell lysate.

Lane 2: Control IgG IP in HEK-293T whole cell lysate.

Detection: Chemiluminescence with exposure time of 30 seconds.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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