abcam

Product datasheet

HRP Anti-ADAR1 antibody [EPR7033] ab206086

KO VALIDATED Recombinant RabMAb

2 Images

Overview

Product name	HRP Anti-ADAR1 antibody [EPR7033]
Description	HRP Rabbit monoclonal [EPR7033] to ADAR1
Host species	Rabbit
Conjugation	HRP
Specificity	The immunogen is designed to detect the p150 isoform and not the p110.
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa and wildtype HAP1 whole cell lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7033

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab206086 in the following tested applications.

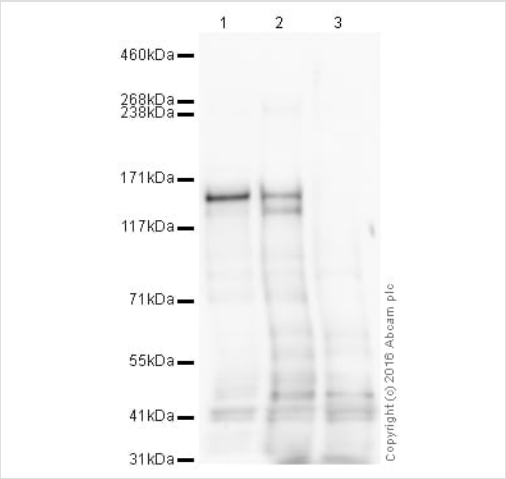
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 150 kDa (predicted molecular weight: 136 kDa).

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.

Images



Western blot - HRP Anti-ADAR1 antibody [EPR7033] (ab206086)

All lanes : HRP Anti-ADAR1 antibody [EPR7033] (ab206086) at 1/5000 dilution

Lane 1 : HeLa whole cell lysate (**ab150035**) at 10 µg
Lane 2 : Wild-type HAP1 cell lysate at 20 µg
Lane 3 : ADAR1 knockout HAP1 cell lysate at 20 µg

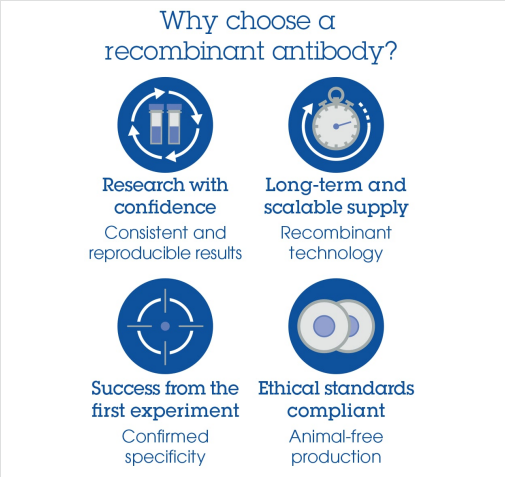
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 136 kDa
Observed band size: 150 kDa

Exposure time: 12 minutes

This blot was produced using a 3-8% Tris Acetate gel under the TA buffer system. The gel was run at 150V for 60 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab206086 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.



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