abcam

Product datasheet

Anti-ADAR1 antibody [EPR7033] ab126745

敲除验证 重组 RabMAb

9 References 6 图像

概述

产品名称	Anti-ADAR1抗体[EPR7033]
描述	兔单克隆抗体[EPR7033] to ADAR1
宿主	Rabbit
特异性	The immunogen is designed to detect the p150 isoform and not the p110.
经测试应用	**适用于:** WB, IHC-P, Flow Cyt (Intra) **不适用于:** ICC/IF or IP
种属反应性	**与反应:** Human
免疫原	Synthetic peptide within Human ADAR1 aa 200-300. The exact sequence is proprietary. The immunogen used to raise this antibody is designed to detect isoform 1 (p150) and isoforms 2-4. It does not detect Isoform 5 (p110). Database link: **P55265**
阳性对照	WB: HEK293T, HeLa, Ramos and SH-SY5Y cell lysates. IHC-P: Human brain tissue Flow Cyt (intra): HeLa cells
常规说明	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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	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.

存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR7033
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab126745于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 150 kDa (predicted molecular weight: 136 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

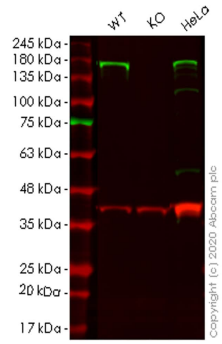
应用说明 Is unsuitable for ICC/IF or IP.

靶标

功能	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.
组织特异性	Ubiquitously expressed, highest levels were found in brain and lung.
疾病相关	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.
序列相似性	Contains 1 A to I editase domain. Contains 2 DRADA repeats. Contains 3 DRBM (double-stranded RNA-binding) domains.
翻译后修饰	Sumoylation reduces RNA-editing activity.

细胞定位	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.

图片



Western blot - Anti-ADAR1 antibody [EPR7033] (ab126745)

All lanes : Anti-ADAR1 antibody [EPR7033] (ab126745) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : ADAR knockout HEK293T cell lysate
Lane 3 : HeLa cell lysate

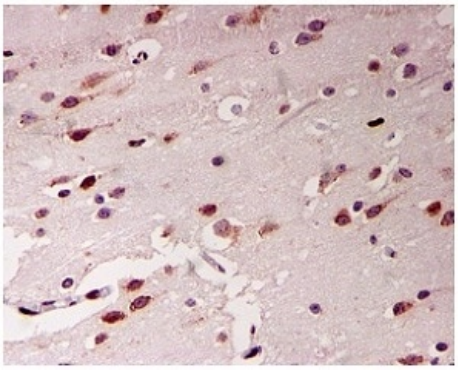
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 136 kDa
Observed band size: 130 kDa

Lanes 1-3: Merged signal (red and green). Green - ab126745 observed at 130 kDa. Red - loading control **ab8245** observed at 36 kDa.

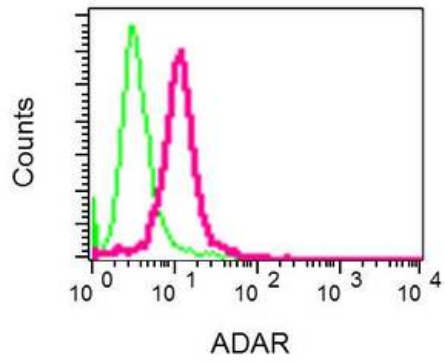
ab126745 Anti-ADAR1 antibody [EPR7033] was shown to specifically react with ADAR1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266846** (knockout cell lysate **ab257131**) was used. Wild-type and ADAR1 knockout samples were subjected to SDS-PAGE. ab126745 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAR1 antibody [EPR7033] (ab126745)

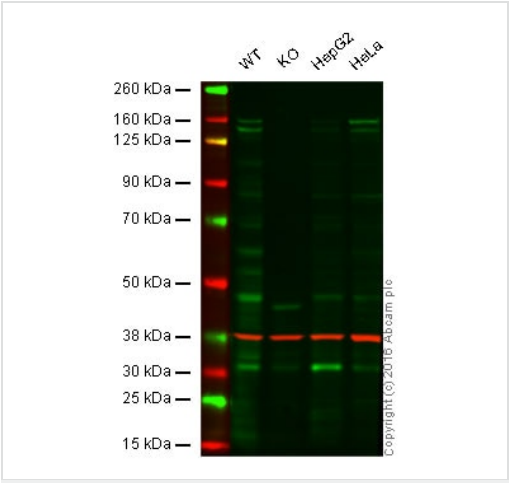
ab126745, at 1/50 dilution, staining ADAR1 in paraffin-embedded Human brain tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



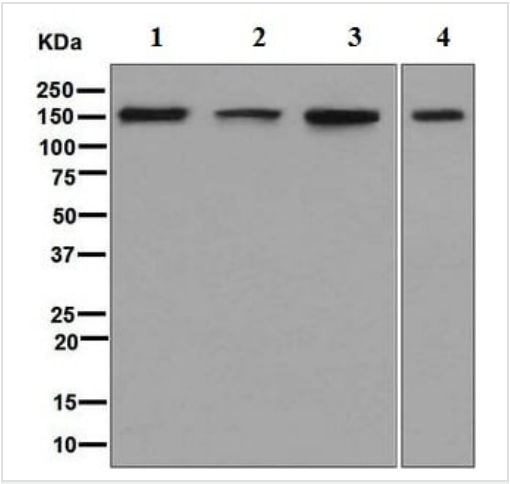
Flow Cytometry (Intracellular) - Anti-ADAR1 antibody [EPR7033] (ab126745)

Intracellular flow cytometric analysis of permeabilized Ramos cells, staining ADAR1 (red) with ab126745. 1x10^6 cells were collected and washed with blocking buffer. Cells were fixed with 2% paraformaldehyde, permeabilized with 1X FACS permeabilizing solution and blocked with blocking buffer for 30 minutes at room temperature. Cells were incubated with primary antibody (1/10) for 30 minutes at room temperature before a Fluorescently-conjugated secondary antibody or 30 min at room temperature. A rabbit IgG was used as a negative control (green).



Western blot - Anti-ADAR1 antibody [EPR7033] (ab126745)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: ADAR1 knockout HAP1 cell lysate (20 µg)
Lane 3: HepG2 cell lysate (20 µg)
Lane 4: HeLa cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab126745 observed at 150 kDa. Red - loading control, **ab8245**, observed at 37 kDa.
ab126745 was shown to recognize ADAR1 when ADAR1 knockout samples were used, along with additional cross-reactive bands. Wild-type and ADAR1 knockout samples were subjected to SDS-PAGE. ab126745 and **ab8245** (loading control to GAPDH) were diluted at 1/1000 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-ADAR1 antibody [EPR7033] (ab126745)

All lanes : Anti-ADAR1 antibody [EPR7033] (ab126745) at 1/1000 dilution

Lane 1 : HeLa (treated with IFN-alpha) cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : Ramos cell lysate
Lane 4 : SH-SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

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

Anti-ADAR1 antibody [EPR7033] (ab126745)

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

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