abcam

Product datasheet

Alexa Fluor® 647 Anti-ADAR1 antibody [EPR7033] ab311103

Recombinant RabMAb

1 Image

Overview

Product name	Alexa Fluor® 647 Anti-ADAR1 antibody [EPR7033]
Description	Alexa Fluor® 647 Rabbit monoclonal [EPR7033] to ADAR1
Host species	Rabbit
Conjugation	Alexa Fluor® 647. Ex: 652nm, Em: 668nm
Specificity	The immunogen is designed to detect the p150 isoform and not the p110.
Tested applications	**Suitable for:** Target binding affinity, Antibody labelling
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	This **conjugated primary antibody** is released using a quantitative quality control method that evaluates binding affinity post-conjugation and efficiency of antibody labeling. For suitable applications and species reactivity, please refer to the unconjugated version of this clone. This conjugated antibody is eligible for Abtrial: learn more **here**. 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 +4°C. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, 68% PBS

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7033
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab311103 in the following tested applications.

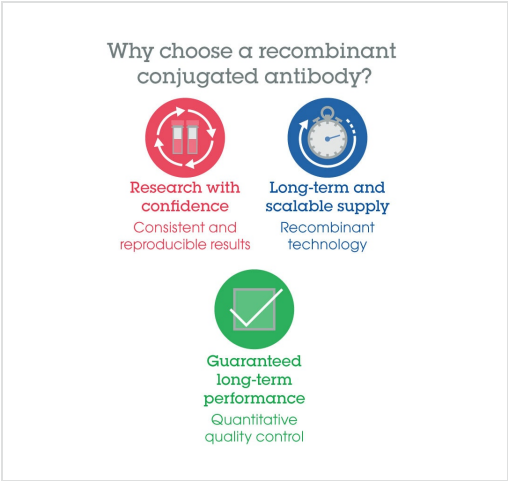
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Target binding affinity		Use at an assay dependent concentration.
Antibody labelling		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.

Images



Alexa Fluor® 647 Anti-ADAR1 antibody [EPR7033] (ab311103)

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

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