abcam

Product datasheet

# Anti-ADA antibody [EPR4438] ab108352

Recombinant RabMAb

1 References 2 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-ADA antibody [EPR4438] |
| **Description** | Rabbit monoclonal [EPR4438] to ADA |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB<br>**Unsuitable for:** Flow Cyt or IHC-P |
| **Species reactivity** | **Reacts with:** Rat, Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | Jurkat, fetal thymus, and rat kidney lysates |
| **General notes** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.<br><br>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information. |

## Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| **Storage buffer** | pH: 7.20<br>Preservative: 0.05% Sodium azide<br>Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |

| | |
|---|---|
| **Clone number** | EPR4438 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab108352 in the following tested applications.

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

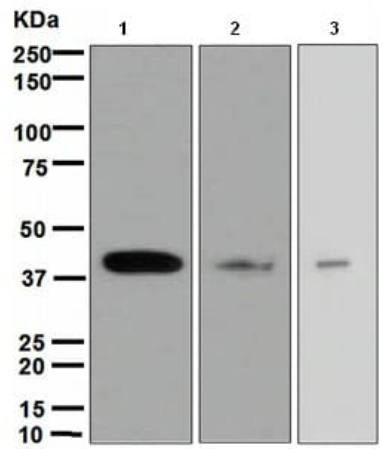
| Application | Abreviews | Notes |
|---|---|---|
| **WB** | | 1/1000 - 1/10000. Predicted molecular weight: 41 kDa. |

**Application notes** Is unsuitable for Flow Cyt or IHC-P.

## Target

| | |
|---|---|
| **Function** | Catalyzes the hydrolytic deamination of adenosine and 2-deoxyadenosine. Plays an important role in purine metabolism and in adenosine homeostasis. Modulates signaling by extracellular adenosine, and so contributes indirectly to cellular signaling events. Acts as a positive regulator of T-cell coactivation, by binding DPP4. Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion. |
| **Tissue specificity** | Found in all tissues, occurs in large amounts in T-lymphocytes and, at the time of weaning, in gastrointestinal tissues. |
| **Involvement in disease** | Defects in ADA are the cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-negative/NK-cell-negative due to adenosine deaminase deficiency (ADASCID) [MIM:102700]. SCID refers to a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients with SCID present in infancy with recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development. ADA-SCID is an autosomal recessive form accounting for about 50% of non-X-linked SCIDs. ADA deficiency has been diagnosed in chronically ill teenagers and adults (late or adult onset). Population and newborn screening programs have also identified several healthy individuals with normal immunity who have partial ADA deficiency. |
| **Sequence similarities** | Belongs to the adenosine and AMP deaminases family. |
| **Cellular localization** | Cell membrane. Cell junction. Cytoplasmic vesicle lumen. Cytoplasm. Colocalized with DPP4 at the cell junction in lymphocyte-epithelial cell adhesion. |

## Images




Western blot - Anti-ADA antibody [EPR4438] (ab108352)

**All lanes :** Anti-ADA antibody [EPR4438] (ab108352) at 1/1000 dilution

**Lane 1 :** Jurkat cell lysate

**Lane 2 :** Human fetal thymus lysate

**Lane 3 :** Rat kidney tissue lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 41 kDa

**Observed band size:** 41 kDa


Anti-ADA antibody [EPR4438] (ab108352)



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