

Datasheet for ABIN5708188  
**anti-ADA antibody (AA 2-241)**

## 3 Images

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## Overview

Quantity:	100 µg
Target:	ADA
Binding Specificity:	AA 2-241
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	A recombinant rat partial protein corresponding to amino acids A2-H241 was used as the immunogen for the Ada antibody.
Isotype:	IgG
Purification:	Antigen affinity purified

## Target Details

Target:	ADA
Alternative Name:	Ada / Adenosine deaminase ( <a href="#">ADA Products</a> )
Background:	Adenosine Deaminase (also known as Adenosine aminohydrolase, or ADA) is an enzyme involved in purine metabolism. Primarily, ADA in humans is involved in the development and maintenance of the immune system. However, ADA association has also been observed with epithelial cell differentiation, neurotransmission, and gestation maintenance. It has also been

## Target Details

proposed that ADA, in addition to adenosine breakdown, stimulates release of excitatory amino acids and is necessary to the coupling of A1 adenosine receptors and heterotrimeric G proteins. Adenosine deaminase deficiency leads to pulmonary fibrosis, suggesting that chronic exposure to high levels of adenosine can exacerbate inflammation responses rather than suppressing them. It has also been recognized that adenosine deaminase protein and activity is upregulated in mouse hearts that overexpress HIF-1 alpha, which in part explains the attenuated levels of adenosine in HIF-1 alpha expressing hearts during ischemic stress.

UniProt: [Q920P6](#)

Pathways: [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [Ribonucleoside Biosynthetic Process](#)

## Application Details

Application Notes: Optimal dilution of the Ada antibody should be determined by the researcher.\. Western Blot: 0.5-1 µg/mL,IHC (FFPE): 1-2 µg/mL,ELISA (Capture): 0.1-0.5 µg/mL

Restrictions: For Research Use only

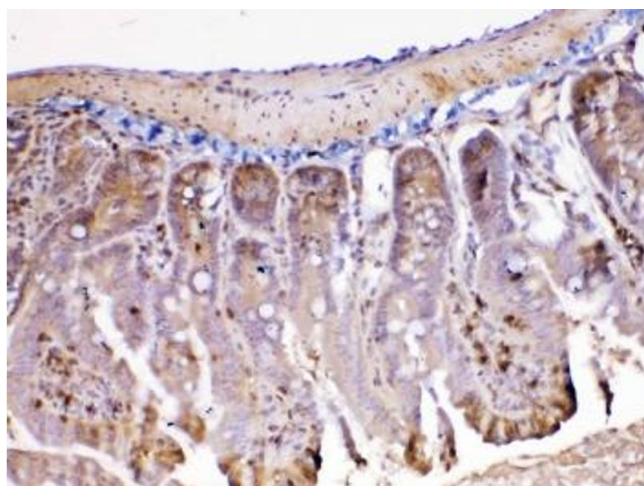
## Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

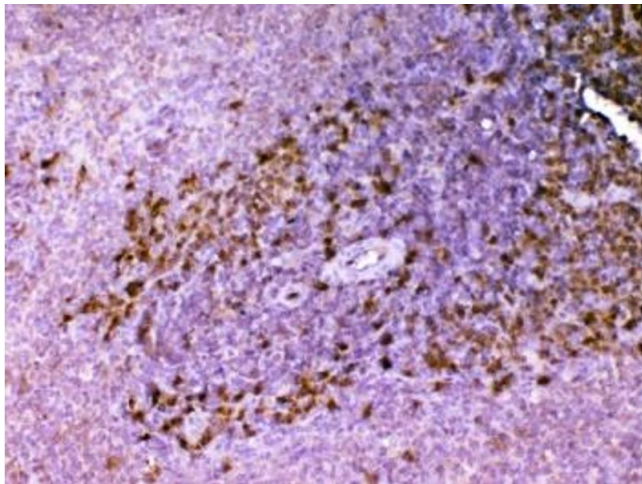
Storage Comment: After reconstitution, the Ada antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

## Images



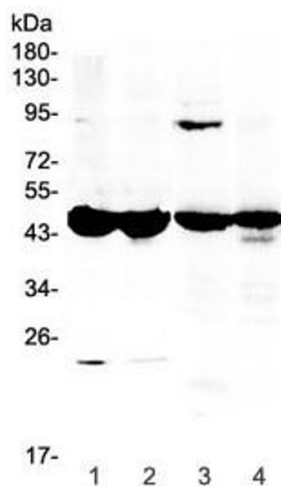
### Immunohistochemistry

**Image 1.** IHC testing of FFPE mouse intestine tissue with Ada antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



#### Immunohistochemistry

**Image 2.** IHC testing of FFPE rat spleen tissue with Ada antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



#### Western Blotting

**Image 3.** Western blot testing of 1) mouse testis, 2) mouse ovary, 3) rat stomach and 4) rat ovary lysate with Ada antibody at 0.5ug/ml. Predicted molecular weight ~41 kDa.