antibodies.com

# Datasheet for ABIN5692790 anti-ADA antibody (AA 2-238)

6 Images



#### Overview

Quantity:	100 µg
Target:	ADA
Binding Specificity:	AA 2-238
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

## Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived mouse ADA recombinant protein (Position: A2-H238).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for ADA detection. Tested with WB, IHC-P, Direct ELISA in Mouse,Rat.

## Target Details

Target:	ADA
Alternative Name:	Ada (ADA Products)
Background:	Synonyms: Adenosine deaminase

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN5692790 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

Tissue Specificity: Detected in brain neurons in the median emninence (at protein level)
(PubMed:8783262). Expressed in secondary deciduum (at protein level) (PubMed:9272950).
Found in all tissues, occurs in large amounts in T-lymphocytes and, at the time of weaning, in
gastrointestinal tissues.
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 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:	P03958
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Ribonucleoside Biosynthetic
	Process

## Application Details

Application Notes:	Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG
	(ABIN921124) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit
	(SV0002-1) for IHC(P).
	Application Details: Western blot, 0.1-0.5 µg/mL
	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/mL
	Direct ELISA, 0.1-0.5 µg/mL
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu$ g/mL.
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na $_2$ HPO $_4$ , 0.05 mg NaN $_3$ .
Preservative:	Sodium azide

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN5692790 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

 	11.	
 000		

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Images



#### Western Blotting

Image 1. Western blot analysis of ADA using anti-ADA antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat stomach tissue lysates, Lane 2: rat kidney tissue lysates, Lane 3: mouse small intestine tissue lysates, After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ADA antigen affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ADA at approximately 45KD. The expected band size for ADA is at 40KD.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN5692790 | 09/10/2023 | Copyright antibodies-online. All rights reserved.



#### Immunohistochemistry

**Image 2.** IHC analysis of ADA using anti-ADA antibody . ADA was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-ADA Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

#### Immunohistochemistry

**Image 3.** IHC analysis of ADA using anti-ADA antibody . ADA was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-ADA Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Please check the product details page for more images. Overall 6 images are available for ABIN5692790.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN5692790 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

