

**ADA Antibody**  
**Rabbit mAb**  
**Catalog # AP92392**

## Specification

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### ADA Antibody - Product Information

Application	WB, ICC, IP
Primary Accession	<a href="#">P00813</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
ada; ADA1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	40764 Da

### ADA Antibody - Additional Information

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human ADA</b>
Description	<b>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.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

### ADA Antibody - Protein Information

**Name** ADA

**Synonyms** ADA1

#### Function

Catalyzes the hydrolytic deamination of adenosine and 2- deoxyadenosine (PubMed:<a href="http://www.uniprot.org/citations/16670267" target="\_blank">16670267</a>, PubMed:<a href="http://www.uniprot.org/citations/23193172" target="\_blank">23193172</a>, PubMed:<a href="http://www.uniprot.org/citations/26166670" target="\_blank">26166670</a>, PubMed:<a href="http://www.uniprot.org/citations/8452534" target="\_blank">8452534</a>, PubMed:<a href="http://www.uniprot.org/citations/9361033" target="\_blank">9361033</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/20959412" target="\_blank">20959412</a>). Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion (PubMed:<a href="http://www.uniprot.org/citations/11772392" target="\_blank">11772392</a>). Enhances dendritic cell immunogenicity by affecting dendritic cell costimulatory molecule expression and cytokines and chemokines secretion (By similarity). Enhances CD4+ T-cell differentiation and proliferation (PubMed:<a href="http://www.uniprot.org/citations/20959412" target="\_blank">20959412</a>). Acts as a positive modulator of adenosine receptors ADORA1 and ADORA2A, by enhancing their ligand affinity via conformational change (PubMed:<a href="http://www.uniprot.org/citations/23193172" target="\_blank">23193172</a>). Stimulates plasminogen activation (PubMed:<a href="http://www.uniprot.org/citations/15016824" target="\_blank">15016824</a>). Plays a role in male fertility (PubMed:<a href="http://www.uniprot.org/citations/21919946" target="\_blank">21919946</a>, PubMed:<a href="http://www.uniprot.org/citations/26166670" target="\_blank">26166670</a>). Plays a protective role in early postimplantation embryonic development (By similarity). Also responsible for the deamination of cordycepin (3'-deoxyadenosine), a fungal natural product that shows antitumor, antibacterial, antifungal, antiviral, and immune regulation properties (PubMed:<a href="http://www.uniprot.org/citations/26038697" target="\_blank">26038697</a>).

#### **Cellular Location**

Cell membrane; Peripheral membrane protein; Extracellular side. Cell junction. Cytoplasmic vesicle lumen {ECO:0000250|UniProtKB:P03958}. Cytoplasm. Lysosome. Note=Colocalized with DPP4 at the cell surface.

#### **Tissue Location**

Found in all tissues, occurs in large amounts in T- lymphocytes (PubMed:20959412). Expressed at the time of weaning in gastrointestinal tissues.

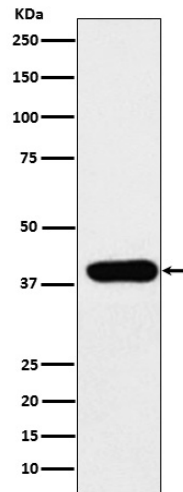
### **ADA Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **ADA Antibody - Images**





Western blot analysis of ADA expression in Jurkat cell lysate.