

ADA Antibody

Rabbit mAb Catalog # AP92392

Product Information

Application WB, IF, ICC, IP
Primary Accession P00813
Reactivity Rat, Human
Clonality Monoclonal
Other Names ada; ADA1;

IsotypeRabbit IgGHostRabbitCalculated MW40764

Additional Information

Dilution WB 1:500~1:2000 ICC/IF 1:50~1:200 IP 1:50

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human ADA

Description 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.

Storage Condition and Buffer 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.

Protein Information

Name ADA

Synonyms ADA1

Function Catalyzes the hydrolytic deamination of adenosine and 2- deoxyadenosine

(PubMed: 16670267, PubMed: 23193172, PubMed: 26166670,

PubMed:8452534, PubMed:9361033). 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:20959412). Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion (PubMed:11772392). 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:20959412). Acts as a positive modulator of adenosine receptors ADORA1 and ADORA2A, by enhancing their ligand affinity via conformational change (PubMed:23193172). Stimulates plasminogen

activation (PubMed:15016824). Plays a role in male fertility (PubMed:21919946, PubMed:26166670). 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, antivirus, and immune regulation properties (PubMed:26038697).

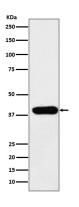
Cellular Location

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.

Images



Western blot analysis of ADA expression in Jurkat cell lysate.

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