

Anti-ADENOSINE DEAMINASE (Calf Spleen) (RABBIT) Antibody
Adenosine Deaminase Antibody
Catalog # ASR4375**Specification****Anti-ADENOSINE DEAMINASE (Calf Spleen) (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Bovine
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
Application Note	Anti-Adenosine Deaminase antibody has been tested in western blot and is suitable for ELISA and Immunoprecipitation applications. Anti-ADENOSINE DEAMINASE antibody was tested against 1.0 ug of Adenosine Deaminase [Calf Spleen] by immunoblot using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) and DAB as a substrate at room temperature. A working dilution of 1:8,000 to 1:40,000 is suggested for this product.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Adenosine Deaminase [Calf Spleen]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-ADENOSINE DEAMINASE (Calf Spleen) (RABBIT) Antibody - Additional Information**Gene ID** 280712**Other Names**
280712**Purity**

Anti-Adenosine Deaminase antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum as well as purified and partially purified Adenosine Deaminase [Calf Spleen]. Cross reactivity against Adenosine Deaminase from other tissues and species may occur but have not been specifically determined.

Storage Condition

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after

standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-ADENOSINE DEAMINASE (Calf Spleen) (RABBIT) Antibody - Protein Information

Name ADA

Function

Catalyzes the hydrolytic deamination of adenosine and 2- deoxyadenosine (By similarity). Plays an important role in purine metabolism and in adenosine homeostasis (By similarity). Modulates signaling by extracellular adenosine, and so contributes indirectly to cellular signaling events (By similarity). Acts as a positive regulator of T-cell coactivation, by binding DPP4 (By similarity). Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion (By similarity). Enhances dendritic cell immunogenicity by affecting dendritic cell costimulatory molecule expression and cytokines and chemokines secretion (PubMed:23240012). Enhances CD4+ T-cell differentiation and proliferation (By similarity). Acts as a positive modulator of adenosine receptors ADORA1 and ADORA2A, by enhancing their ligand affinity via conformational change (By similarity). Stimulates plasminogen activation (By similarity). Plays a role in male fertility (By similarity). 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 (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P00813}; Peripheral membrane protein; Extracellular side. Cell junction {ECO:0000250|UniProtKB:P00813} Cytoplasmic vesicle lumen {ECO:0000250|UniProtKB:P03958}. Cytoplasm. Lysosome {ECO:0000250|UniProtKB:P00813} Note=Colocalized with DPP4 at the cell surface {ECO:0000250|UniProtKB:P00813}

Tissue Location

Expressed in gastrointestinal tissues (at protein level).

Anti-ADENOSINE DEAMINASE (Calf Spleen) (RABBIT) 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](#)

Anti-ADENOSINE DEAMINASE (Calf Spleen) (RABBIT) Antibody - Images

Anti-ADENOSINE DEAMINASE (Calf Spleen) (RABBIT) Antibody - Background

Adenosine deaminase antibody is an enzyme involved in purine metabolism. It is needed for the

breakdown of adenosine from food and for the turnover of nucleic acids in tissues. Present in virtually all mammalian cells, its primary function in humans is the development and maintenance of the immune system. However, the full physiological role of ADA is not yet completely understood. Anti-ADENOSINE DEAMINASE antibody is ideal for investigators involved in enzyme and infectious disease research.