Datasheet for ABIN94705

anti-ADA antibody

1 Image

Go to Product page

Overview

Quantity:	2 mL
Target:	ADA
Reactivity:	Human, Mouse, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Purpose:	Adenosine Deaminase Antibody
Immunogen:	Immunogen: Adenosine Deaminase [Calf Spleen] Immunogen Type: Native Protein
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Adenosine Deaminase [Calf Spleen].
Characteristics:	Synonyms: rabbit anti-Adenosine Deaminase Antibody, Adenosine deaminase, Adenosine aminohydrolase
Purification:	This product was prepared from monospecific antiserum by a delipidation and defibrination.

Target Details

Target:	ADA
Alternative Name:	ADA (ADA Products)

Target Details

Background:	Background: Adenosine Deaminase catalyzes the hydrolytic deamination of adenosine and 2-deoxyadenosine. It plays an important role in purine metabolism and in adenosine homeostasis. Adenosine Deaminase modulates signaling by extracellular adenosine, therefore contributes indirectly to cellular signaling events. It acts as a positive regulator of T-cell coactivation, by binding DPP4. Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion. Adenosine Deaminase enhances dendritic cell immunogenicity by affecting dendritic cell costimulatory molecule expression and cytokines and chemokines secretion. It enhances CD4+ T-cell differentiation and proliferation. And acts as a positive modulator of adenosine receptors ADORA1 and ADORA2A, by enhancing their ligand affinity via conformational change. It stimulates plasminogen activation. It also plays a role in male fertility and a protective role in early post implantation embryonic development.
Gene ID:	280712
NCBI Accession:	NP_776312
UniProt:	P56658
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Application Note: Anti-Adenosine Deaminase has been tested by western blot and is suitable for use in ELISA, western blot, and immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Western Blot Dilution: 1:500 - 1:2,000 Immunoprecipitation Dilution: 1:100 ELISA Dilution: 1:5,000 - 1:10,000 Other: User Optimized
Restrictions:	For Research Use only

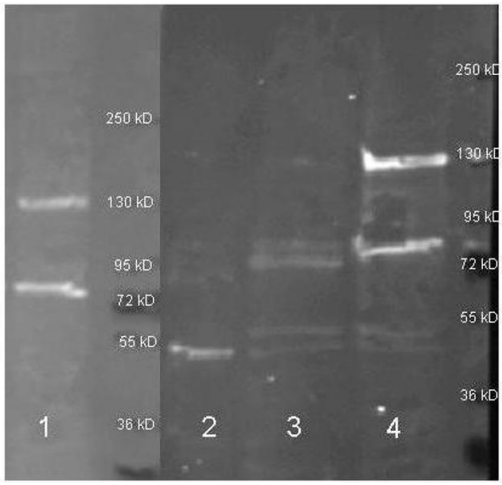
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 2.0 mL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	90 mg/mL

Handling

Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
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:	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.
Expiry Date:	12 months

Images



Western Blotting

Image 1. biotin conjugated anti adenosine deaminase was used to detect adenosine deaminase in mouse pancreas lysate (Left, Lane 1, 30 ul) under reducing conditions. The antibody was also used to detect purified Adenosine Deaminase (right, Lane 2), and endogenous Adenosine Deaminase in whole cell lysate from Jurkat and Raji cells (1:1 mixture, lane 3,) as well as Mouse Pancreas and Liver (1:1 mixture, lane 4). Lysates were run on 4-20% gel 140V under reducing conditions, transferred for 30 minutes at 100 V and blocked with 3% Fish Gel (left) or 3% BSA. Blot was incubated with 200-406-140 lot 5628 (1:5K in TBS, ON 4°C), washed 3X in TBS and incubated for 30 minutes with Dylight 488 conjugated Streptavidin (S000-41 lot 20833 1:5K in ABIN925618). Blot was imaged with the Biorad VersaDoc imaging system.