Datasheet for ABIN1607721

anti-ADA antibody (Biotin)

1 Image

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Overview

Quantity:	100 µg
Target:	ADA
Reactivity:	Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADA antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Purpose:	Adenosine Deaminase Antibody Biotin Conjugated
Immunogen:	Immunogen: Adenosine Deaminase [Calf Spleen] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Rabbit Serum as well as purified and partially purified Adenosine Deaminase [Calf Spleen].
Characteristics:	Synonyms: rabbit anti-Adenosine Deaminase Antibody biotin Conjugation, biotin conjugated rabbit anti-Adenosine Deaminase Antibody, Adenosine deaminase, Adenosine aminohydrolase
Purification:	This product 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.

Target Details

Target:	ADA
Alternative Name:	ADA (ADA Products)
Background:	Background: Adenosine Deaminase catalyzes the deamination of adenosine to inosine, thus destabilizing double-stranded RNA. Anti-Adenosine Deaminase is a member of the adenosine and AMP deaminases family. This antibody is a factor in purine metabolism and adenosine homeostasis, as well as positively regulating T-cell coactivation through the binding of DPP4. The antibody interacts with DPP4 in the extracellular domain, thus regulating lymphocyte-epithelial cell adhesion. It moderates extracellular adenosine signaling. Enzyme deficiency in Adenosine Deaminase has been associated with severe combined immunodeficiency disease, whereas an overabundance may result in congenital hemolytic anemia. Anti-Adenosine Deaminase is ideal for investigators involved in Enzyme, DNA and RNA research.
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 Biotin Antibody has been tested by western blot. This product is suitable to be assayed against 1.0 µg of Adenosine Deaminase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:15,000 to 1:64,000 of the reconstitution concentration is suggested for this product. Western Blot Dilution: 1:500 - 1:5,000 Immunoprecipitation Dilution: 1:100 ELISA Dilution: 1:5,000 - 1:20,000 Other: User Optimized
Restrictions:	For Research Use only

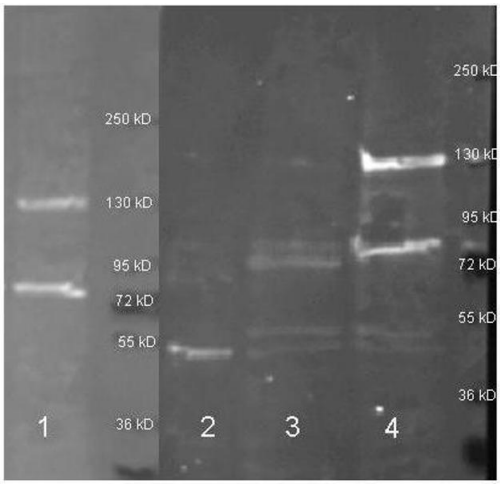
Handling

Format:	Lyophilized

Handling

Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	10 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free 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.