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Product datasheet for TA396920S

ADA Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	**WB**: 1:500 - 1:5,000 **ELISA**: 1:5,000 - 1:20,000
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Adenosine Deaminase [Calf Spleen]
Specificity:	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. 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]. Cross reactivity against Adenosine Deaminase from other sources may occur but has not been specifically determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Biotin
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Database Link:	P56658

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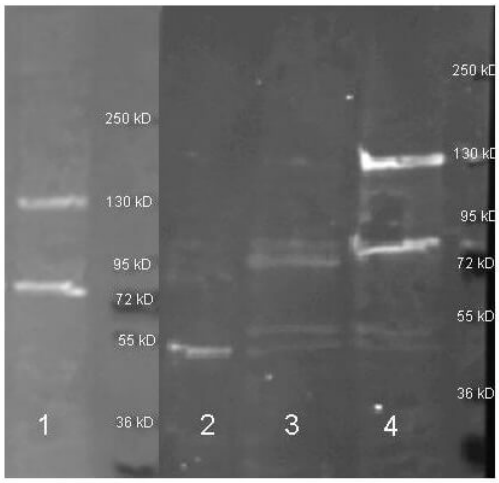
Background: Adenosine Deaminase catalyzes the deamination of adenosine to inosine, thus destabilizing double-stranded RNA. Anti-Adenosine Deaminase is a member of the adenosine and AMP deaminases family. This antibody is a factor in purine metabolism and adenosine homeostasis, as well as positively regulating 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.

Synonyms: rabbit anti-Adenosine Deaminase Antibody biotin Conjugation, biotin conjugated rabbit anti-Adenosine Deaminase Antibody, Adenosine deaminase, Adenosine aminohydrolase

Note: Anti-Adenosine Deaminase Biotin Antibody has been tested by western blot. This product is suitable to be assayed against 1.0 ug 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.

Product images:



Rockland biotin conjugated anti adenosine deaminase (200-406-140) 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 MB-070). Blot was imaged with the Biorad VersaDoc imaging system.