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Datasheet for 200-403-140

Adenosine Deaminase Antibody Peroxidase Conjugated

Overview

Description:	Anti-Adenosine Deaminase (Calf Spleen) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - 200-403-140
Item No.:	200-403-140
Size:	20 mg
Applications:	ELISA, WB
Reactivity:	Bovine Calf Spleen
Host Species:	Rabbit

Product Details

Background:	Adenosine deaminase (adenosine aminhydrolase, or ADA) 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. ADA irreversibly deaminates adenosine, converting it to the related nucleoside inosine by the substitution of the amino group for a hydroxyl group. ADA irreversibly deaminates adenosine, converting it to the related nucleoside inosine by the substitution of the amino group for a hydroxyl group. Inosine can then be deribosylated by another enzyme called purine nucleoside phosphorylase (PNP), converting it to hypoxanthine.
Synonyms:	rabbit anti-Adenosine Deaminase Antibody Peroxidase Conjugation, HRP conjugated rabbit anti-Adenosine Deaminase Antibody, Adenosine deaminase, Adenosine aminohydrolase
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ADA
Reactivity:	Bovine Calf Spleen
Immunogen Type:	Native Protein

Immunogen:	Adenosine Deaminase [Calf Spleen] ADA
Purity/Specificity:	Adenosine deaminase 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-Peroxidase, anti-Rabbit Serum as well as purified and partially purified Adenosine Deaminase [Calf Spleen]. Cross reactivity against Adenosine Deaminase from other sources is unknown.
Relevant Links:	• UniProtKB - P56658 • NCBI - P56658.3 • GeneID - 280712

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Adenosine deaminase Peroxidase antibody has been tested by ELISA and western blot and is assayed against 1.0 ug of Adenosine Deaminase [Calf Spleen] in a standard capture ELISA using 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 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IP:	1:100
WB:	1:500 - 1:5,000

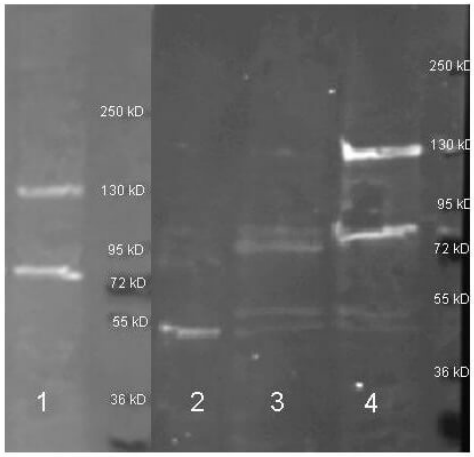
Formulation

Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

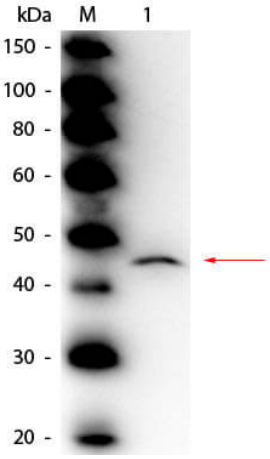
Shipping & Handling

Shipping Condition:	Ambient
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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
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.



Western Blot
Western Blot of Rabbit anti-Adenosine Deaminase Antibody Peroxidase Conjugated. Lane 1: Adenosine Deaminase (Calf Spleen). Load: 50 ng per lane. Primary antibody: Rabbit anti-Adenosine Deaminase Antibody Peroxidase Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: n/a. Block: MB-070 for 30 min at RT. Predicted/Observed size: 41 kDa, 45 kDa for Adenosine Deaminase (Calf Spleen).

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