



## Anti-ADENOSINE DEAMINASE (Calf Spleen) - 100-401-140

**Code:** 100-401-140

**Size:** 2 mL

**Product Description:** Anti-ADENOSINE DEAMINASE (Calf Spleen) - 100-401-140

**Concentration:** 90 mg/mL by Refractometry

**PhysicalState:** Lyophilized

<b>Label</b>	Unconjugated
<b>Host</b>	Rabbit
<b>Gene Name</b>	ADA
<b>Species Reactivity</b>	Bovine Calf spleen
<b>Buffer</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Reconstitution Volume</b>	2.0 mL
<b>Reconstitution Buffer</b>	Restore with deionized water (or equivalent)
<b>Stabilizer</b>	None
<b>Preservative</b>	0.01% (w/v) Sodium Azide
<b>Storage Condition</b>	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.
<b>Synonyms</b>	rabbit anti-Adenosine Deaminase Antibody, Adenosine deaminase, Adenosine aminohydrolase
<b>Application Note</b>	Anti-Adenosine Deaminase is suitable for use in ELISA, western blot, and immunoprecipitation. Specific conditions for reactivity should be optimized by the end user.
<b>Background</b>	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.
<b>Purity And Specificity</b>	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, 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.
<b>Assay Dilutions</b>	User Optimized
<b>ELISA</b>	1:5,000 - 1:10,000
<b>Western Blot</b>	1:500 - 1:2,000
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	Adenosine Deaminase [Calf Spleen]
<b>Related Products</b>	
610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

**Related Links**

UniProtKB - P56658

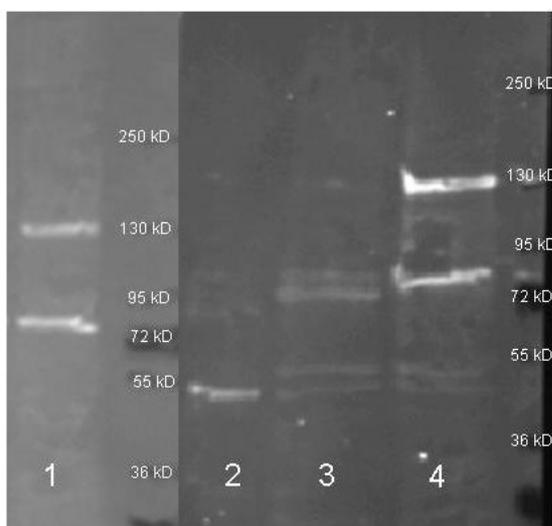
<http://www.uniprot.org/uniprot/P56658>NCBI - P56658.3 <http://www.ncbi.nlm.nih.gov/protein/P56658.3>

GeneID - 280712

**Images**

1

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.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.