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Datasheet for 200-406-140

# Adenosine Deaminase Antibody Biotin Conjugated

## Overview

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| **Description:** | Anti-Adenosine Deaminase (Calf Spleen) (RABBIT) Antibody Biotin Conjugated (BULK ORDER) - 200-406-140 |
| **Item No.:** | 200-406-140 |
| **Size:** | 10 mg |
| **Applications:** | WB |
| **Reactivity:** | Bovine Calf Spleen |
| **Host Species:** | Rabbit |

## Product Details

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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 |
| **Host Species:** | Rabbit |
| **Conjugate:** | Biotin |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | ADA |
| **Reactivity:** | Bovine Calf Spleen |

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| **Immunogen Type:** | Native Protein |
| **Immunogen:** | Adenosine Deaminase [Calf Spleen] |
| **Purity/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. |
| **Relevant Links:** | • UniProtKB - P56658<br>• NCBI - P56658.3<br>• GeneID - 280712 |

## Application Details

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| **Tested Applications:** | WB |
| **Application 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. |
| **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

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| **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) Sodium Azide |
| **Stabilizer:** | 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |
| **Reconstitution Volume:** | 1.0 mL |

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| **Reconstitution Buffer:** | Restore with deionized water (or equivalent) |

## Shipping & Handling

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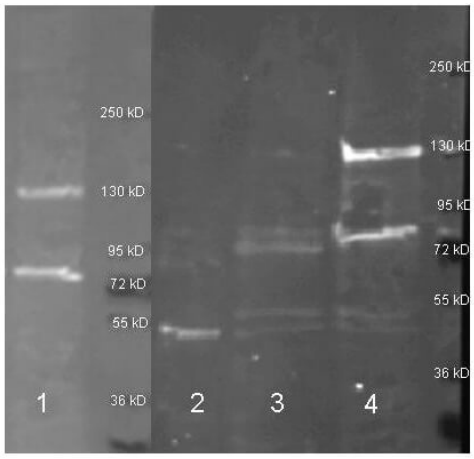
| **Shipping Condition:** | Ambient |
| **Storage Condition:** | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product 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.

## Disclaimer

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