

Datasheet for 200-406-049S**Carboxypeptidase B Antibody Biotin Conjugated****Overview**

Description:	Anti-Carboxypeptidase B (RABBIT) Antibody Biotin Conjugated - 200-406-049S
Item No.:	200-406-049S
Size:	25 µL
Applications:	WB
Reactivity:	Pig
Host Species:	Rabbit

Product Details

Background:	A carboxypeptidase (EC number 3.4.16 - 3.4.18) is a protease enzyme that hydrolyzes (cleaves) a peptide bond at the carboxy-terminal (C-terminal) end of a protein or peptide. (Contrast with an aminopeptidase, which cleaves peptide bonds at the other end of the protein.) Humans, animals, and plants contain several types of carboxypeptidases that have diverse functions ranging from catabolism to protein maturation. Carboxypeptidase B is a carboxypeptidase that preferentially acts upon basic amino acids, such as arginine and lysine. This serum enzyme is also responsible for rapidly metabolizing the C5a protein into C5a des-Arg, with one less amino acid.
Synonyms:	rabbit anti-Carboxypeptidase B antibody biotin conjugation, biotin conjugated rabbit anti-Carboxypeptidase B Antibody, CarboxypeptidaseB1 antibody, CP B1 antibody, CPB 1 antibody, CPB antibody, CPB1 antibody, DKFZp779K1333 antibody, Pancreas specific protein antibody, Pancreatic carboxypeptidase B1 antibody
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CPB1
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Reactivity:	Pig
Immunogen Type:	Native Protein
Immunogen:	Carboxypeptidase B [Porcine Pancreas]
Purity/Specificity:	Anti-CARBOXYPEPTIDASE B (RABBIT) Antibody 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 Carboxypeptidase B [Porcine Pancreas]. Cross reactivity against Carboxypeptidase B from other sources may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P09955 • NCBI - NP_999334.1 • GeneID - 397341

Application Details

Tested Applications:	WB
Application Note:	Anti-CARBOXYPEPTIDASE B Biotin Antibody has been tested by Western Blot and is suitable to be assayed against 1.0 ug of Carboxypeptidase B 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 1:4,000 to 1:20,000 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 - 1:25,000
WB:	1:500 - 1:3,000

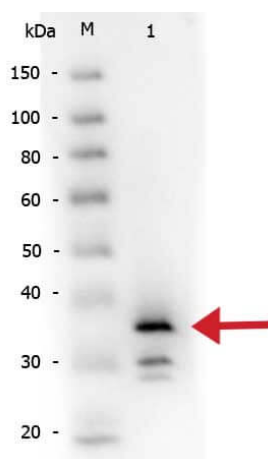
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 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

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-Carboxypeptidase B antibody Biotin conjugated. Lane 1: Carboxypeptidase B. Load: 50 ng per lane. Primary antibody: Rabbit anti-Carboxypeptidase B antibody Biotin conjugated at 1:1,000 overnight at 4°C. Secondary antibody: HRP conjugated rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: Blocking buffer for Fluorescent Western Blotting (MB-070) at RT for 30 min. Predicted/Observed size: ~35 kDa

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.