

Datasheet for 200-4671S**L-Asparaginase Antibody Biotin Conjugated****Overview**

Description:	Anti-L-Asparaginase (RABBIT) Antibody Biotin Conjugated - 200-4671S
Item No.:	200-4671S
Size:	25 µL
Applications:	Dot Blot, ELISA, WB
Reactivity:	E. coli
Host Species:	Rabbit

Product Details

Background:	Anti-L-Asparaginase antibody recognizes the protein asparaginase. Asparaginase is responsible for the catalysis of asparagine to L-aspartic acid and ammonia. In food processing, asparaginase is used to prevent the formation of acrylamide, a carcinogen, from the heating of asparagine which causes it to undergo the maillard reaction. Asparaginase is also used in cancer therapy since leukemic cells are unable to produce their own asparagine and therefore, must rely on circulating asparagine. Treatment with asparaginase converts the asparagine to aspartic acid denying the leukemic cells of asparagine, resulting in their death. Anti-L-Asparaginase antibody is suitable to investigators interested in cancer, metabolism, and enzymology.
Synonyms:	rabbit anti-L-Asparaginase Antibody biotin Conjugation, biotin Conjugated rabbit anti-L-Asparaginase Antibody, L ASNase II antibody, AnsA antibody, AnsB antibody, Colaspase antibody, Cytoplasmic asparaginase I antibody, L ASNase I antibody, L asparaginase II precursor antibody, L asparagine amidohydrolase I antibody
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ansB
Reactivity:	E. coli

Immunogen Type:	Native Protein
Immunogen:	Asparaginase [E. coli]
Purity/Specificity:	Anti-L-Asparaginase 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 Asparaginase [E. coli]. Cross reactivity against Asparaginase from other sources may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P00805 • NCBI - P00805.2 • GeneID - 1039460

Application Details

Tested Applications:	Dot Blot, ELISA, WB
Application Note:	Anti-L-Asparaginase Biotin Conjugated Antibody has been by ELISA, dot blot, and western blot. This product is assayed against 1.0 ug of Asparaginase 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 1:3,200 to 1:12,800 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:	1:1,000
WB:	1:500
Other:	User Optimized

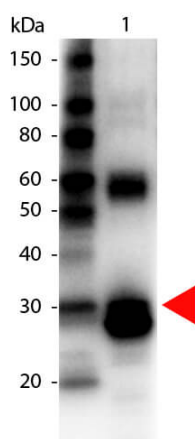
Formulation

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 Biotin Conjugated Rabbit anti-L-Asparaginase Antibody. Lane 1: L-Asparaginase. Lane 2: none. Load: 100 ng per lane. Primary antibody: Biotin Conjugated L-Asparaginase antibody at 1:1000 for overnight at 4°C. Secondary antibody: HRP Streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 32 kDa for L-Asparaginase. Other band(s): L-Asparaginase splice variants and isoforms.

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.