

Datasheet for 200-4672S

Lysozyme Antibody Biotin Conjugated**Overview**

Description:	Anti-Lysozyme (Hen Egg White) (RABBIT) Antibody Biotin Conjugated - 200-4672S
Item No.:	200-4672S
Size:	25 µL
Applications:	ELISA, WB, IHC
Reactivity:	Chicken
Host Species:	Rabbit

Product Details

Background:	Anti-Lysozyme Antibody detects lysozyme. Lysozyme belongs to the glycoside hydrolases enzymes that damage bacterial cell walls by catalyzing hydrolysis of 1,4-beta-linkages between N-acetylmuramic acid and N-acetyl-D-glucosamine residues in a peptidoglycan and between N-acetyl-D-glucosamine residues in chitodextrins. Lysozyme is abundant in a number of secretions, such as tears, saliva, human milk, and mucus. It is also present in cytoplasmic granules of the polymorphonuclear neutrophils. Large amounts of lysozyme can be found in egg white. Anti-Lysozyme Antibody is ideal for investigators involved in Cell Signaling, Neuroscience and Signal Transduction research.
Synonyms:	rabbit anti-Lysozyme Antibody biotin Conjugation, biotin Conjugated rabbit anti-Lysozyme Antibody, 1 4 beta n acetylmuramidase c antibody, EC 3.2.1.17 antibody, LYZ antibody, Lysozyme C antibody, Lysozyme C precursor antibody, LZM antibody, Hen Egg White
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LYZ
Reactivity:	Chicken
Immunogen Type:	Native Protein

Immunogen:	Anti-Lysozyme Antibody was produced by repeated immunizations with hen egg white Lysozyme protein.
Purity/Specificity:	Anti-Lysozyme Antibody is an IgG fraction 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 Lysozyme [Hen Egg White]. Cross reactivity against Lysozyme from other sources is unknown.
Relevant Links:	• UniProtKB - P00698 • NCBI - NP_990612.1 • GeneID - 396218

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IHC (Based on references)
Application Note:	Anti-Lysozyme Biotin Conjugated Antibody has been tested by ELISA and western blot and is suitable for IP. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000
IHC:	1:100 - 1:500
IP:	1:100
WB:	1:200 - 1:1,000

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-Lysozyme antibody. (Left Blot-grey) Samples of ~1 ug of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with Rockland Biotin Conjugated Rabbit anti Lysozyme antibody (200-4672 lot 20676 1:5K in MB-0070, ON 4 C). Lane 1: purified Lysozyme reduced. Lane 2: purified Lysozyme non-reduced. Load: ~1 ug per lane. Primary antibody: Biotin Conjugated Rabbit anti Lysozyme antibody at 1:5000 for overnight at 4°C. Secondary antibody: Dylight 488 conjugated Streptavidin at 1:1,000 with Block: MB-070 overnight at 4°C. (Right Blot-red) Blot shown on right shows detection of 0.5 ug reduced (R) and nonreduced (NR) Lysozyme using Rockland p/n 200-401-072 lot 26517 (1:1000 in MB-070) with Rockland Dylight 549 conjugated secondary antibody (605-742-125 lot 21096 1:10K 1.5 hr RT in MB-070). Lane 1: purified Lysozyme reduced. Lane 2: purified Lysozyme non-reduced. Predicted/Observed size: ~14-16 kDa for Lysozyme. Other band(s): none.

References

- Eric H Ekland et al. Requirements for follicular exclusion and competitive elimination of autoantigen-binding B cells. *J Immunol* . (2004)

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.