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Datasheet for 200-4672

Lysozyme Antibody Biotin Conjugated

Overview

Description:	Anti-Lysozyme (Hen Egg White) (RABBIT) Antibody Biotin Conjugated (BULK ORDER) - 200-4672
Item No.:	200-4672
Size:	10 mg
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
F/P Ratio:	5.6 BAC molecules per Rabbit IgG molecule

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:	• NCBI - NP_990612.1 • UniProtKB - P00698 • 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:	1:20,000
IHC:	1:1,000 - 1:5,000
IP:	1:100
WB:	1:2,000 - 1:10,000

Formulation

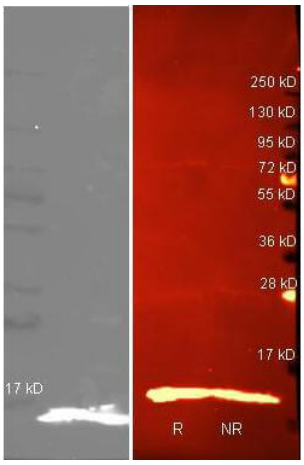
Physical State:	Lyophilized
Concentration:	10 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL

Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

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
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)

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