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Datasheet for 200-4372S

Lysozyme Antibody Peroxidase Conjugated

Overview

Description:	Anti-Lysozyme (Hen Egg White) (RABBIT) Antibody Peroxidase Conjugated - 200-4372S
Item No.:	200-4372S
Size:	25 µL
Applications:	ELISA, WB
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 Peroxidase Conjugation, HRP 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:	Peroxidase (HRP)
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-Peroxidase, anti-Rabbit Serum as well as purified and partially purified Lysozyme [Hen Egg White]. Cross reactivity against Lysozyme from other tissues and species may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P00698 • NCBI - NP_990612.1 • GeneID - 396218

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Lysozyme Peroxidase Conjugate Antibody has been tested by western blotting and ELISA 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:	1:10,000
IHC:	1:500 - 1:2,500
IP:	1:100
WB:	1:1,000 - 1:5,000

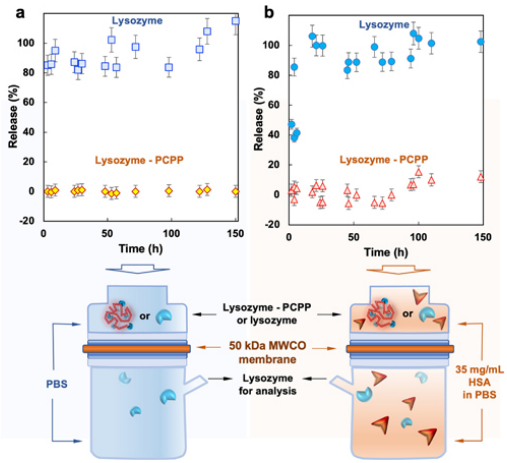
Formulation

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) Gentamicin Sulfate. Do NOT add 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



ELISA
Release of lysozyme from lysozyme - PCPP complexes (5.7:1 mol/mol) in the (a) absence and (b) presence of HSA as studied in Franz glass diffusion cells - schematically illustrated below (1 mg/mL lysozyme; 10 mg/mL PCPP; 35 mg/mL HSA; PBS, pH 7.4; 2 mL donor compartment; 10 mL acceptor compartment; 50 kDa molecular weight cut off cellulose membrane; release profiles of lysozyme from the donor compartment in the absence of PCPP are shown as diamonds and triangles; two independent experiments were carried out for each dataset with ELISA readouts taken in triplicate, error bars show standard deviation). Fig 7.
PMID: 38206583

References

- Marin A et al. Immunopotentiating Polyphosphazene Delivery Systems: Supramolecular Self-Assembly and Stability in the Presence of Plasma Proteins. *Mol Pharm.* (2024)
- Lueckheide M et al. Monitoring Protein Complexation with Polyphosphazene Polyelectrolyte Using Automated Dynamic Light Scattering Titration and Asymmetric Flow Field Flow Fractionation and Protein Recognition Immunoassay. *ACS Polym Au.* (2023)

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