

## Datasheet for 200-4372-0100

## Lysozyme Antibody Peroxidase Conjugated

### Overview

<b>Description:</b>	Anti-Lysozyme (Hen Egg White) (RABBIT) Antibody Peroxidase Conjugated - 200-4372-0100
<b>Item No.:</b>	200-4372-0100
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, WB
<b>Reactivity:</b>	Chicken
<b>Host Species:</b>	Rabbit

### Product Details

<b>Background:</b>	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.
<b>Synonyms:</b>	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
<b>Host Species:</b>	Rabbit
<b>Conjugate:</b>	Peroxidase (HRP)
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

### Target Details

<b>Gene Name:</b>	LYZ
<b>Reactivity:</b>	Chicken
<b>Immunogen Type:</b>	Native Protein

<b>Immunogen:</b>	Anti-Lysozyme Antibody was produced by repeated immunizations with hen egg white Lysozyme protein.
<b>Purity/Specificity:</b>	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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P00698</a></li><li>• <a href="#">NCBI - NP_990612.1</a></li><li>• <a href="#">GeneID - 396218</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, WB
<b>Application Note:</b>	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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:10,000
<b>IHC:</b>	1:500 - 1:2,500
<b>IP:</b>	1:100
<b>WB:</b>	1:1,000 - 1:5,000

## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	100 µL
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

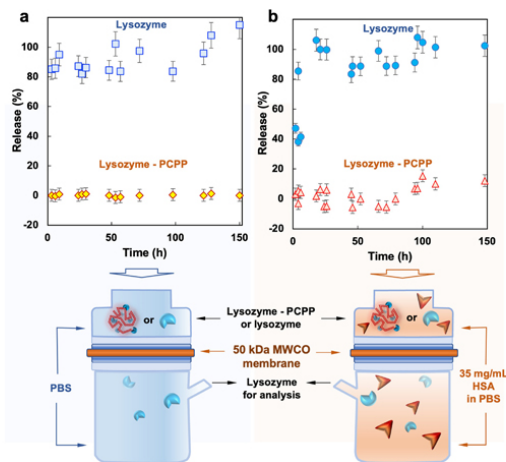
## Shipping & Handling

**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



### 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)

## Disclaimer

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