bs-0816R **[Primary Antibody]**

Lysozyme Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: Lysozyme

Immunogen: Full length native Lysozyme: purufied protein.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes human lysozyme, whose natural substrate is the bacterial cell wall peptidoglycan (cleaving the beta[1-4]glycosidic linkages between N-acetylmuramic acid and N-acetylglucosamine). Lysozyme is one of the antimicrobial agents found in human milk, and is also present in spleen, lung, kidney, white blood cells, plasma, saliva, and tears. The protein has antibacterial activity against a number of bacterial species. Missense mutations in this gene have been identified in heritable renal amyloidosis. [provided by RefSeq, Oct 2014]

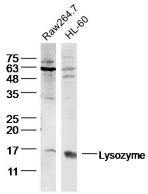
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse, Rat
(predicted: Chicken)

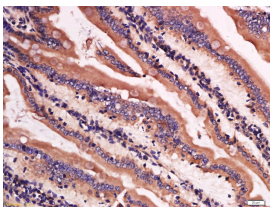
Predicted MW.: 17 kDa

Subcellular Location: Secreted

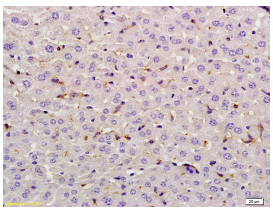
VALIDATION IMAGES



Sample: Raw264.7 Cell (Mouse) Lysate at 40 ug HL-60 Cell (Human)Lysate at 40 ug Primary: Anti-Lysozyme (bs-0816R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kD Observed band size: 16 kD



Tissue/cell: mouse intestine tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Lysozyme Polyclonal Antibody, Unconjugated(bs-0816R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Lysozyme Polyclonal Antibody, Unconjugated(bs-0816R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=8.713]** Peng Yang. et al. Single-cell RNA sequencing analysis of shrimp immune cells identifies macrophage-like phagocytes. ELIFE. 2022 Oct WB ;Shrimp. 36200862
- **[IF=8.9]** Huanliang Liu. et al. Oil mistparticulate matter exposure induces hyperlipidemia-related inflammation via microbiota/ SCFAs/GPR43 axis inhibition and TLR4/NF-κB activation. ENVIRON POLLUT. 2024 Jan;:123331 IHC ;Rat. 38199482
- **[IF=5.1]** Arong Wang. et al. Lactobacillus-derived indole derivatives ameliorate intestinal barrier damage in rat pups with complementary food administration. FOOD FUNCT. 2024 Aug;: IHC ;Rat. 39105499
- **[IF=3.757]** Haruna Nakayama. et al. Preparing a pore-size-controlled TEMPO oxidized cellulose nanofiber substrate for

enzyme immunoassay applications. PROCESS BIOCHEM. Process Biochem. 2022 Jun;117:174 ELISA ;Material. 10.1016/j.procbio.2022.04.007

- **[IF=1.967]** Nagata, Kenichiro. et al. Analysis of the enzymatic degradation of lysozyme fibrils using a combination method of non-denaturing gel electrophoresis and double staining with Coomassie Brilliant Blue G-250 and R-250 dyes. ANAL SCI. 2022 Nov;:1-8 WB ;. 36451064