

Product Datasheet

Lysozyme C Antibody / LYZ (orb2635000)

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| Description | Lysozyme is an enzyme, commonly referred to as the body's own antibiotic since it kills bacteria. Natural substrate of lysozyme 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. Lysozyme is synthesized predominantly in reactive histiocytes rather than in resting, unstimulated phagocytes. This antibody labels myeloid cells, histiocytes, granulocytes, macrophages and monocytes. It is helpful in the identification of myeloid or monocytic nature of acute leukemia. |
| Species/Host | Mouse |
| Reactivity | Human |
| Conjugation | Unconjugated |
| Tested Applications | IHC-P, WB |
| Immunogen | A portion of amino acids 18-147 was used as the immunogen for the Lysozyme C antibody. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Note | For research use only |
| Application notes | Optimal dilution of the Lysozyme C antibody should be determined by the researcher. |
| Formula | 1 mg/ml in 1X PBS; BSA free, sodium azide free |
| Isotype | Mouse IgG2b, kappa |
| Clonality | Monoclonal |

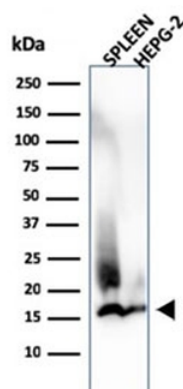
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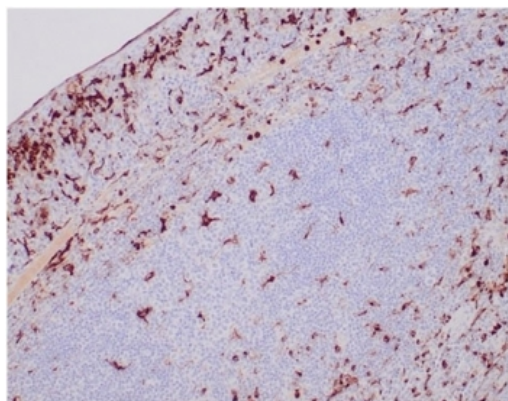
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| | |
|---------------------------|---|
| Clone Number | LYZ/3944 |
| Uniprot ID | P61626 |
| Hazard Information | This Lysozyme C antibody is available for research use only. |
| Dilution Range | Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml |
| Expiration Date | 12 months from date of receipt. |



Western blot testing of human spleen tissue and HepG2 cell lysates using Lysozyme C antibody (clone LYZ/3944). Predicted molecular weight ~17 kDa.



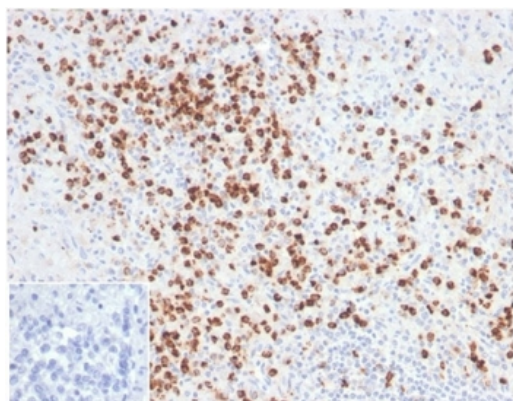
IHC staining of FFPE human spleen tissue with Lysozyme C antibody (clone LYZ/3944). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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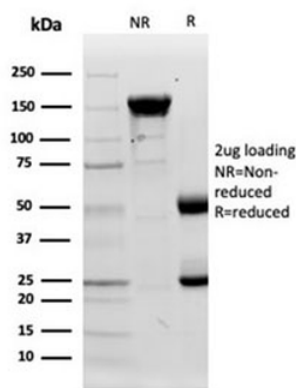
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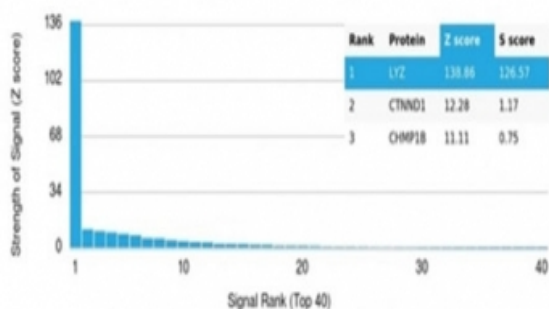


IHC staining of FFPE human spleen tissue with Lysozyme C antibody (clone LYZ/3944). Negative control inset: PBS instead of primary antibody to control for secondary binding. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Lysozyme C antibody (clone LYZ/3944) as confirmation of integrity and purity.

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using Lysozyme C antibody (clone LYZ/3944). These results demonstrate the foremost specificity of the LYZ/3944 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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