DATASHEET

Lysozyme Rabbit Monoclonal Antibody(ARA501)

CAT. NO. ARA5822

KEY FEATURES

Target	Lysozyme	**Source/Host**	Rabbit
Reactivity	Human, Mouse	**Clonality**	Monoclonal
Applications	WB,IHC,IF/ICC	**Isotype**	IgG
Storage	at -20°C		

BACKGROUND

Lysozyme is an antimicrobial enzyme that hydrolyzes beta-1,4 glycosidic linkages in bacterial cell-wall peptidoglycan. It contributes to innate host defense and is present in tissues and body fluids including spleen, lung, kidney, white blood cells, plasma, saliva and tears.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:5000 - 1:10000
IHC	1:500 - 1:1000
IF/ICC	1:100 - 1:250

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Recombinant rabbit monoclonal antibody to Lysozyme for WB, IHC and IF/ICC.
Specificity	Specifically detects Lysozyme; specificity confirmed using LYZ knockout samples.
Antibody Type	Primary antibody, Recombinant
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Molecular Weight	Predicted: 15 kDa
Purification	Protein A affinity purified.
Isotype	IgG
Form/Buffer	Liquid in PBS, pH 7.2-7.4, with 40% glycerol, 0.05% BSA and 0.01% sodium azide.
Alternative Names	LZM, LYZ, Lysozyme C
Gene Symbol	LYZ
Entrez Gene	4069
SwissProt	P61626

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

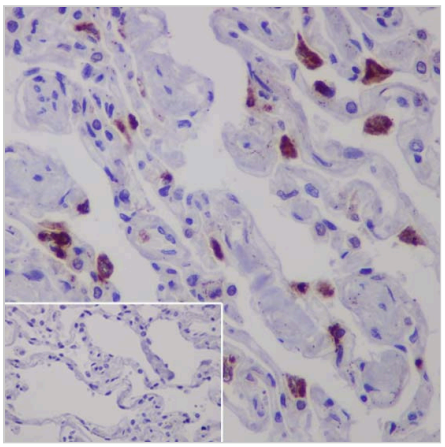
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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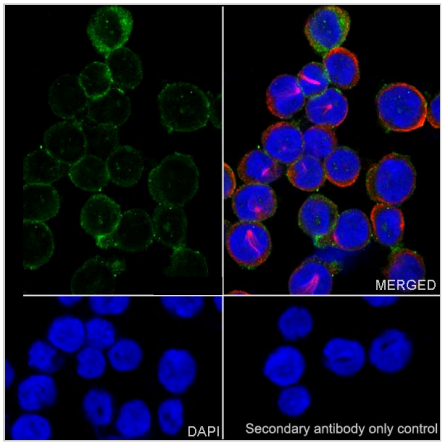
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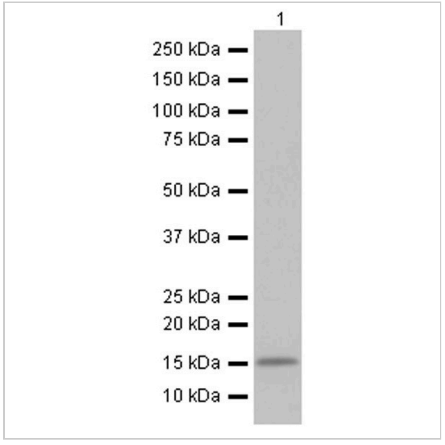
DATA



Immunohistochemical analysis of paraffin-embedded human lung tissue sections labeling Lysozyme with Lysozyme Rabbit Monoclonal Antibody(ARA501) at 1:1500 dilution (0.6 µg/mL). Goat anti-rabbit IgG H&L (HRP) at 1:500 was used as the secondary antibody. Sections were counterstained with hematoxylin. Heat-mediated antigen retrieval was performed using EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, shown in the inset.



Immunocytochemistry/immunofluorescence analysis of THP-1 human monocytic leukemia cells labeling Lysozyme with Lysozyme Rabbit Monoclonal Antibody(ARA501) at 1:250. Cells were fixed with 100% methanol. AREX® Flour 488-conjugated goat anti-rabbit IgG at 1:1000 was used as the secondary antibody. Alpha Tubulin antibody conjugated to AREX® Flour 594 at 1:200 was used as a microtubule marker, and DAPI was used as a nuclear counterstain. PBS was used instead of the primary antibody as the secondary-only negative control.



Western blot analysis of HL-60 human promyelocytic leukemia whole-cell lysate using Lysozyme Rabbit Monoclonal Antibody(ARA501) at 1:50000 dilution. Each lane contained 20 µg lysate. Anti-rabbit IgG (HRP), specific to the non-reduced form of IgG, was used at 1:2000. The predicted band sizes are 16 and 48 kDa, and the observed band size is 16 kDa. Blocking and dilution buffer: 5% NFDM/TBST.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com