abcam

Product datasheet

Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free ab185129

KO VALIDATED Recombinant RabMAb

11 Images

Overview

Product name	Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR2994(2)] to Lysozyme - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB, ICC/IF **Unsuitable for:** IP
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: THP-1, HepG2, RAW 264.7 and HL-60 whole cell lysate; Human spleen tissue lysate; Natural human Lysozyme protein. IHC-P: Human tonsil, spleen, lung, kidney, brain, breast and heart tissues; Mouse spleen and small intestine tissues. ICC/IF: THP-1 cells.
General notes	ab185129 is the carrier-free version of **ab108508**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit

monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR2994(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab185129 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

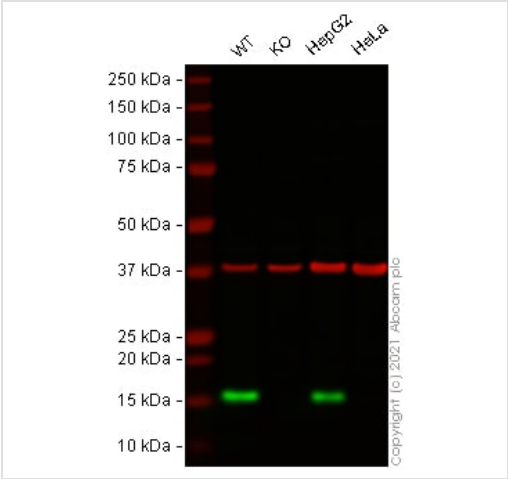
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Heat up to 98 degrees C, below boiling, and then let cool for 10-20 min.
WB		Use at an assay dependent concentration. Predicted molecular weight: 17 kDa.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for IP.

Target

Function	Lysozymes have primarily a bacteriolytic function; those in tissues and body fluids are associated with the monocyte-macrophage system and enhance the activity of immunoagents.
Involvement in disease	Amyloidosis 8
Sequence similarities	Belongs to the glycosyl hydrolase 22 family.
Cellular localization	Secreted.

Images



Western blot - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

All lanes : Anti-Lysozyme antibody [EPR2994(2)] (**ab108508**) at 1/10000 dilution

Lane 1 : Wild-type THP-1 (Human monocytic leukemia cell line) whole cell lysate
Lane 2 : LYZ knockout THP-1 (Human monocytic leukemia cell line) whole cell lysate
Lane 3 : Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 4 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

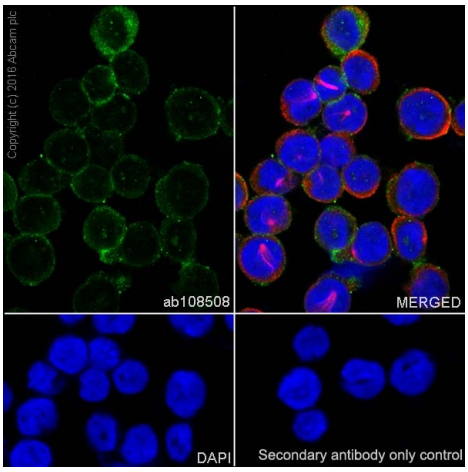
Performed under reducing conditions.

Predicted band size: 17 kDa
Observed band size: 16 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab108508**).

Lanes 1 - 4: Merged signal (red and green). Green - **ab108508** observed at 16 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

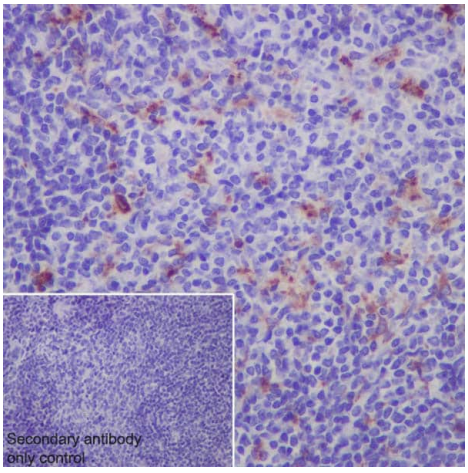
ab108508 was shown to react with Lysozyme in wild-type THP1 cells in Western blot with loss of signal observed in LYZ knockout sample. Wild-type THP1 and LYZ knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with **ab108508** and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

Immunocytochemistry/Immunofluorescence analysis of THP-1 (Human monocytic leukemia) cells labeling lysozyme with purified **ab108508** at 1/250. Cells were fixed with 100% methanol. **ab150077**, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Cells were counter-stained with **ab195889** Anti-Alpha Tubulin antibody [DM1A] (1/200, 2.5 g/mL) - Microtubule Marker (Alexa Fluor®594) at 1/200. DAPI (blue) was used as a nuclear counterstain. Secondary Only Control: PBS was used instead of the primary antibody as the negative control.

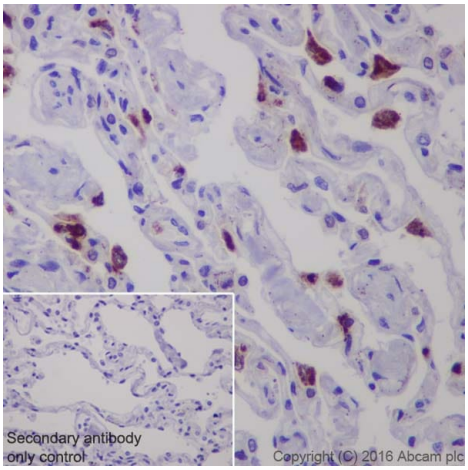
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108508**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue sections labeling lysozyme with purified **ab108508** at a dilution of 1/1500 (0.6 µg/ml). **ab97051** Goat Anti-Rabbit IgG H&L (HRP) at 1/500 was used as the secondary anitbody. Sections were counterstained with hematoxylin. Antigen retrieval was heat mediated using EDTA Buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.

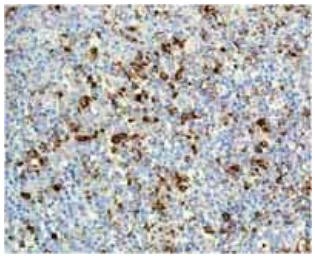
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108508**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

Immunohistochemical analysis of paraffin-embedded human lung tissue sections labeling lysozyme with purified **ab108508** at a dilution of 1/1500 (0.6 µg/ml). **ab97051** Goat Anti-Rabbit IgG H&L (HRP) at 1/500 was used as the secondary anitbody.Sections were counterstained with Hematoxylin. Antigen retrieval was heat mediated using EDTA Buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108508**).

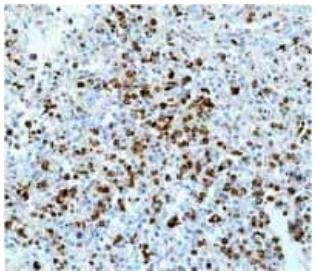


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

Unpurified **ab108508**, at 1/1000 dilution, staining Lysozyme in Human tonsil by Immunohistochemistry, Paraffin-embedded tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108508**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

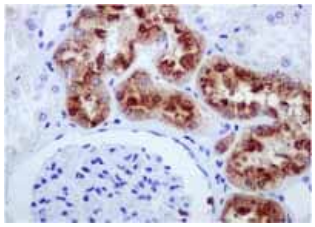


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

Unpurified **ab108508**, at 1/1000 dilution, staining Lysozyme in Human spleen by Immunohistochemistry, Paraffin-embedded tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108508**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

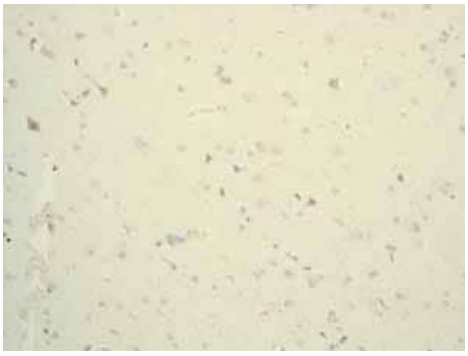


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

Unpurified **ab108508**, at 1/1000 dilution, staining Lysozyme in Human kidney by Immunohistochemistry, Paraffin-embedded tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108508**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

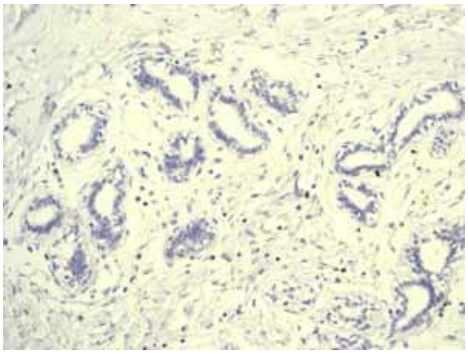


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

Unpurified **ab108508** showing negative staining in Normal brain tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108508**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

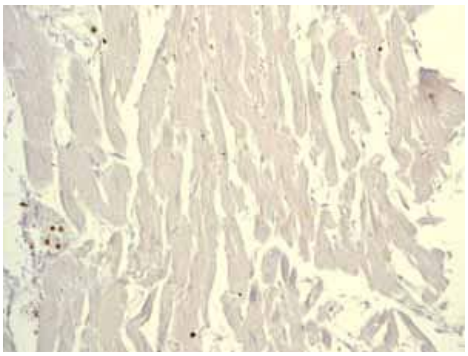


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

Unpurified **ab108508** showing negative staining in Normal breast tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108508**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

Unpurified **ab108508** showing negative staining in Normal heart tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108508**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Anti-Lysozyme antibody [EPR2994(2)] - BSA and Azide free (ab185129)

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