abcam

Product datasheet

HRP Anti-Lysozyme antibody [EPR2994(2)] ab197705

KO VALIDATED Recombinant RabMAb

4 Images

Overview

Product name	HRP Anti-Lysozyme antibody [EPR2994(2)]
Description	HRP Rabbit monoclonal [EPR2994(2)] to Lysozyme
Host species	Rabbit
Conjugation	HRP
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse **Does not react with:** Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: THP-1, HepG2, HL-60 whole cell lysate and human spleen tissue lysate. IHC-P: normal human tonsil tissue sections.
General notes	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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR2994(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab197705 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
WB		1/1000. Detects a band of approximately 16 kDa (predicted molecular weight: 17 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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 - HRP Anti-Lysozyme antibody [EPR2994(2)] (ab197705)

All lanes : HRP Anti-Lysozyme antibody [EPR2994(2)] (ab197705) at 1/1000 dilution

Lane 1 : Wild-type THP-1 cell lysate
Lane 2 : LYZ knockout THP-1 cell lysate
Lane 3 : HepG2 cell lysate
Lane 4 : HeLa cell lysate

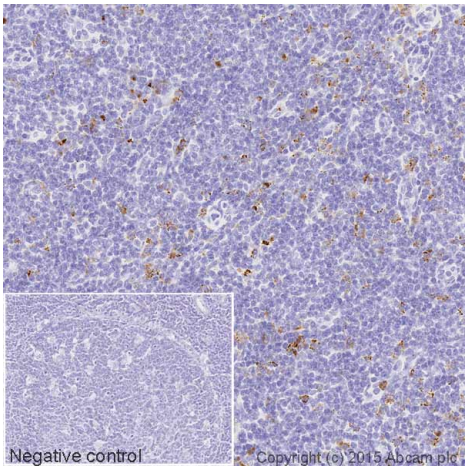
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

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

Exposure time: 2 minutes

ab197705 was shown to react with Lysozyme in wild-type THP-1 cells in western blot. Loss of signal was observed when LYZ knockout sample was used. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab197705 overnight at 4 °C at a 1 in 1000 dilution. Blots were developed with Optiblot ECL reagent (**ab133456**) and imaged.



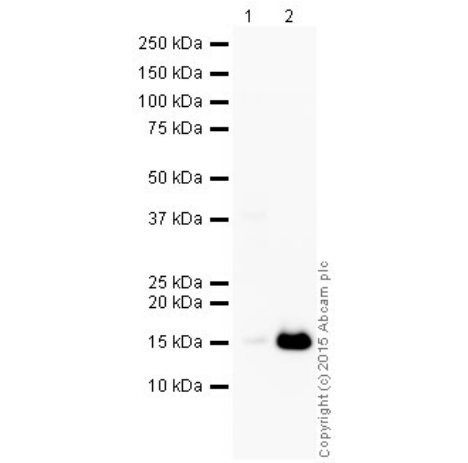
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Lysozyme antibody [EPR2994(2)] (ab197705)

IHC image of lysozyme staining in a section of formalin-fixed paraffin-embedded normal human tonsil*, performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab197705, 1/100 dilution, for 15 mins at room temperature.

DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - HRP Anti-Lysozyme antibody [EPR2994(2)] (ab197705)

All lanes : HRP Anti-Lysozyme antibody [EPR2994(2)] (ab197705) at 1/1000 dilution

Lane 1 : HL60 (Human promyelocytic leukemia cell line) Whole Cell Lysate
Lane 2 : Spleen (Human) Tissue Lysate - adult normal tissue

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

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

Exposure time: 20 minutes

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab197705 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

HRP Anti-Lysozyme antibody [EPR2994(2)]

(ab197705)

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