Product datasheet

Anti-LAMP1 antibody [1D4B] ab25245

Overview

Product name Anti-LAMP1 antibody [1D4B]
Description Rat monoclonal [1D4B] to LAMP1
Host species Rat
Specificity Murine CD107a/LAMP1 (Mr 110-140 kDa with a core protein of Mr ~40 kDa)
Tested applications Suitable for: IHC-P, ICC/IF, Other, Flow Cyt, IP, IHC-Fr, WB, Immunomicroscopy
Species reactivity Reacts with: Mouse, Human
Immunogen Plasma membrane fraction of mouse embryo NIH3T3 cell line.
Positive control IHC-P: human lung FFPE tissue sections

Properties

Form Liquid
Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer pH: 8.20
 Constituent: 100% Borate buffered saline
Clonality Monoclonal
Clone number 1D4B
Isotype IgG2a
Light chain type kappa

Applications

Our Abpromise guarantee covers the use of ab25245 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>IHC-P</td>
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<td>Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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Function
Presents carbohydrate ligands to selectins. Also implicated in tumor cell metastasis.

Sequence similarities
Belongs to the LAMP family.

Post-translational modifications
O- and N-glycosylated; some of the 18 N-linked glycans are polylactosaminoglycans.

Cellular localization

Images

ab25245 staining LAMP1 in Mouse epithelial cells by ICC/IF (Immunocytochemistry/Immunofluorescence). Cells were fixed with methanol/acetone 1:1 and blocked with 1% milk in PNB for 1 hour at 25°C. Samples were incubated with primary antibody (1/500) in PNB for 16 hours at 4°C. An Alexa Fluor® 568-conjugated Donkey polyclonal to rat IgG, dilution 1/500, was used as secondary antibody. Nuclei were stained blue.
IHC image of LAMP1 staining in human lung formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab25245, 10µg/ml, for 15 mins at room temperature. A goat anti-rat biotinylated secondary antibody was used to detect the primary, and visualized using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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.

Overlay histogram showing Jurkat cells stained with ab25245 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab25245, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rat IgG (H+L) (ab98386) at 1/500 dilution for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rat IgG (H+L) (ab98386) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rat IgG2a [aRTK2758] (ab18450, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with methanol (5 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.
ab25245 staining mouse macrophage, hepatoma cell by ICC/IF. Cells were PFA fixed and permeabilized in Triton X-100 prior to blocking in 1% BSA for 30 minutes at 25°C. The primary antibody was diluted 1/1000 and incubated with the sample for 16 hours at 4°C. An Alexa Fluor® 594 conjugated goat anti-mouse antibody was used as the secondary.

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