abcam

Product datasheet

Anti-LY75/DEC-205 antibody [EPR5233] - BSA and Azide free ab208649

Recombinant RabMAb

1 References 6 Images

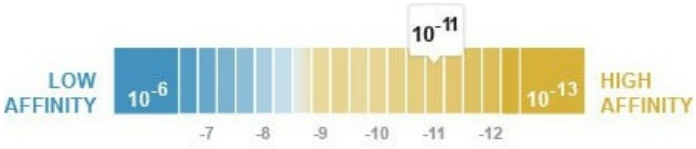
Overview

Product name	Anti-LY75/DEC-205 antibody [EPR5233] - BSA and Azide free
Description	Rabbit monoclonal [EPR5233] to LY75/DEC-205 - BSA and Azide free
Host species	Rabbit
Specificity	The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse.
Tested applications	**Suitable for:** IHC-P, WB, mIHC
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human tonsil lysate, Daudi Whole cell lysate, Mouse lymph node lysate and Mouse thymus lysate IHC: human T cell lymphoma tissue, human thymus tissue, human spleen tissue
General notes	ab208649 is the carrier-free version of **ab124897**. 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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	$K_D = 2.54 \times 10^{-11}$ M



Learn more about K_D

Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5233
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab208649 in the following tested applications.

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

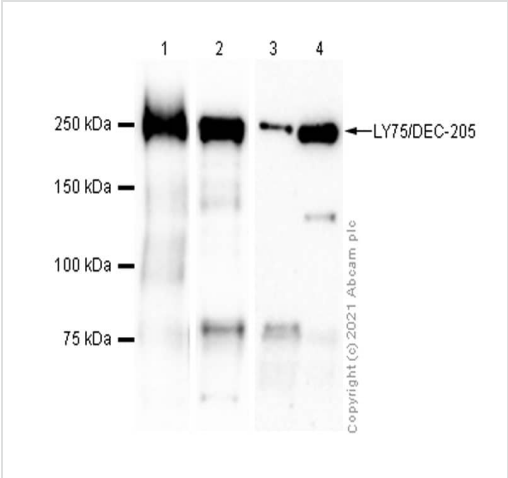
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse.
WB		Use at an assay dependent concentration. Detects a band of approximately 205 kDa (predicted molecular weight: 198 kDa).
mIHC		1/15000. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2)

Target

Function Acts as an endocytic receptor to direct captured antigens from the extracellular space to a specialized antigen-processing compartment (By similarity). Causes reduced proliferation of B-lymphocytes.

Tissue specificity	Expressed in spleen, thymus, colon and peripheral blood lymphocytes. Detected in myeloid and B lymphoid cell lines. Isoform 2 and isoform 3 are expressed in malignant Hodgkin lymphoma cells called Hodgkin and Reed-Sternberg (HRS) cells.
Sequence similarities	Contains 10 C-type lectin domains. Contains 1 fibronectin type-II domain. Contains 1 ricin B-type lectin domain.
Post-translational modifications	N-glycosylated.
Cellular localization	Membrane.

Images



Western blot - Anti-LY75/DEC-205 antibody [EPR5233] - BSA and Azide free (ab208649)

All lanes : Anti-LY75/DEC-205 antibody [EPR5233] (**ab124897**) at 1/1000 dilution (Purified)

Lane 1 : Human tonsil lysate
Lane 2 : Daudi (Human Burkitt's lymphoma lymphoblast) whole cell lysate
Lane 3 : Mouse lymph node lysate
Lane 4 : Mouse thymus lysate

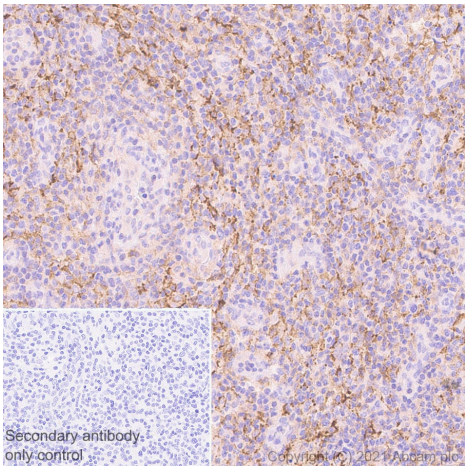
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 198 kDa
Observed band size: 205 kDa

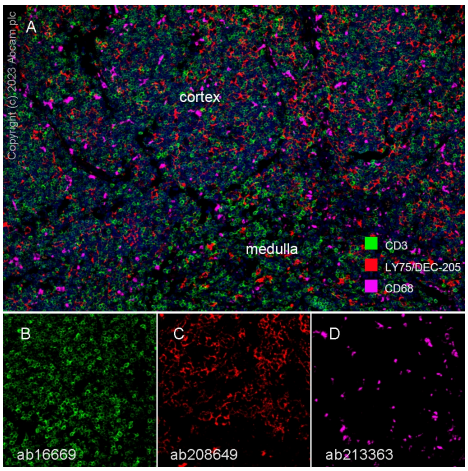
This data was developed using **ab124897**, the same antibody clone in a different buffer formulation.

DEC-205 is a 205 kD integral membrane protein abundant on dendritic cells in lymphoid tissues. We are unsure about the nature of the lower extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LY75/DEC-205 antibody [EPR5233] - BSA and Azide free (ab208649)

This data was developed using **ab124897**, the same antibody clone in a different buffer formulation.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human t cell lymphoma tissue sections labeling LY75/DEC-205 with Purified **ab124897** at 1:1600 dilution (0.07 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using **ab93678** (citrate buffer, pH 6.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used. PBS instead of the primary antibody was used as the negative control.



Multiplex immunohistochemistry - Anti-LY75/DEC-205 antibody [EPR5233] - BSA and Azide free (ab208649)

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded Human thymus tissue labeling CD3 with **ab16669** at 1/500 dilution, LY75/DEC-205 with ab208649 at 1/15000, and CD68 with **ab213363** at 1/500 dilution.

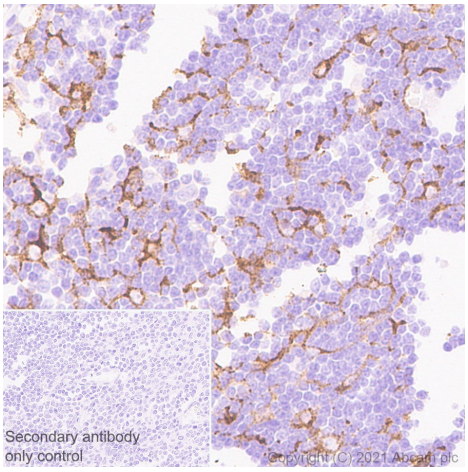
Panel A: merged staining of anti-CD68 (magenta; Opal™690), anti-CD3 (green; Opal™520) and anti-LY75/DEC-205 (red; Opal™570) on human thymus.
Panel B: anti-CD3 stained on T cells.
Panel C: anti-LY75/DEC-205 stained on thymic cortical epithelium and dendritic cells.
Panel D: anti-CD68 stained on macrophages.

Sections were treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins before antibody incubation. The section was incubated in three rounds of staining: in the order of **ab213363**, **ab16669**, and ab208649 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

DAPI was used as a nuclear counterstain.

The immunostaining was performed on a Leica Biosystems

BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LY75/DEC-205 antibody [EPR5233] - BSA and Azide free (ab208649)

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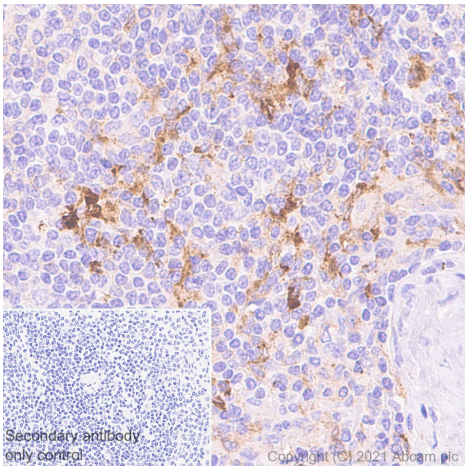
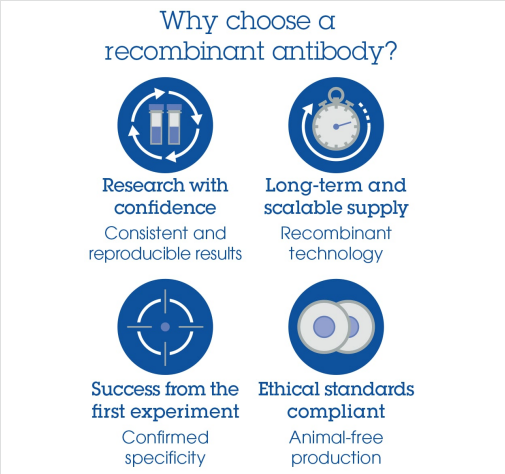


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LY75/DEC-205 antibody [EPR5233] - BSA and Azide free (ab208649)

This data was developed using **ab124897**, the same antibody clone in a different buffer formulation.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue sections labeling LY75/DEC-205 with Purified **ab124897** at 1:1600 dilution (0.07 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using **ab93678** (citrate buffer, pH 6.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used. PBS instead of the primary antibody was used as the negative control.



Anti-LY75/DEC-205 antibody [EPR5233] - BSA and Azide free (ab208649)

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