

## Product datasheet

### Anti-LY75/DEC-205 antibody [EPR5233] ab124897

Recombinant RabMAb

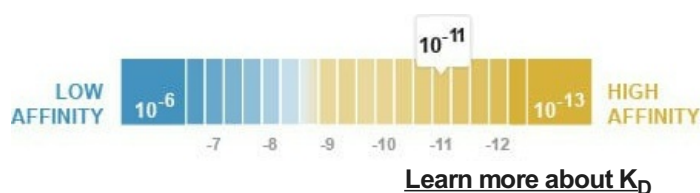
★★★★★ [3 Abreviews](#) [2 References](#) [6 Images](#)

#### Overview

Product name	Anti-LY75/DEC-205 antibody [EPR5233]
Description	Rabbit monoclonal [EPR5233] to LY75/DEC-205
Host species	Rabbit
Specificity	The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse.
Tested applications	<b>Suitable for:</b> WB, IHC-P, mIHC
Species reactivity	<b>Reacts with:</b> Mouse, Human
Immunogen	Synthetic peptide within Human LY75/DEC-205 aa 1700-1800 (intracellular). The exact sequence is proprietary.
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	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K <sub>D</sub> )	K <sub>D</sub> = 2.54 x 10 <sup>-11</sup> M



<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR5233
<b>Isotype</b>	IgG

## Applications

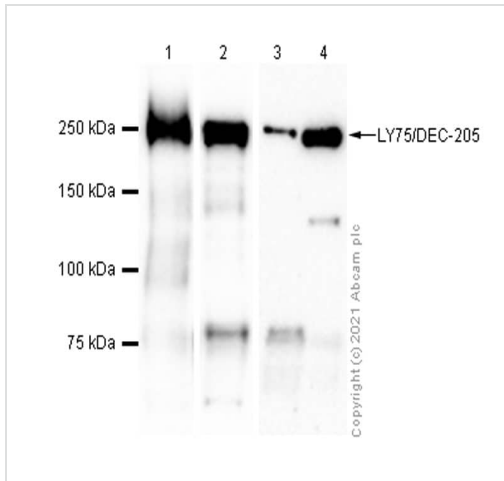
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab124897 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Detects a band of approximately 205 kDa (predicted molecular weight: 198 kDa).
<b>IHC-P</b>	★★★★★ (1)	1/1600. 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. For unpurified use: 1/250.00000 - 1/500.00000
<b>mlHC</b>		Use at an assay dependent concentration. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2)

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Contains 10 C-type lectin domains. Contains 1 fibronectin type-II domain. Contains 1 ricin B-type lectin domain.
<b>Post-translational modifications</b>	N-glycosylated.
<b>Cellular localization</b>	Membrane.

## Images



Western blot - Anti-LY75/DEC-205 antibody  
[EPR5233] (ab124897)

**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.

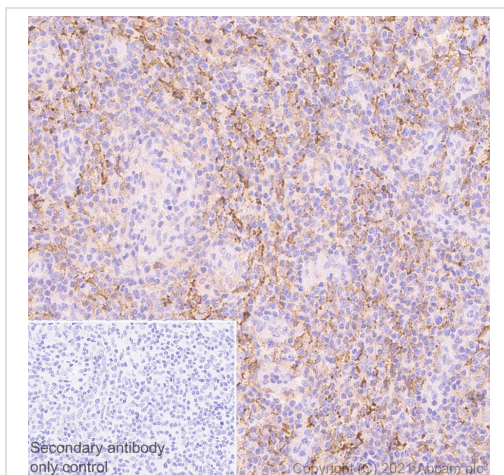
### Secondary

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

**Predicted band size:** 198 kDa

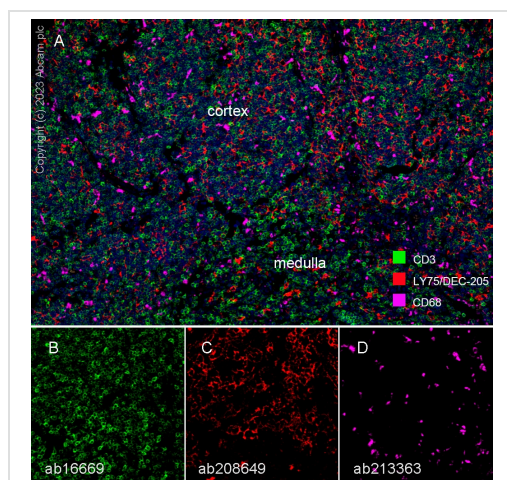
**Observed band size:** 205 kDa

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] (ab124897)

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] (ab124897)

This data was developed using [ab208649](#), the same antibody clone in a different buffer formulation.

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.

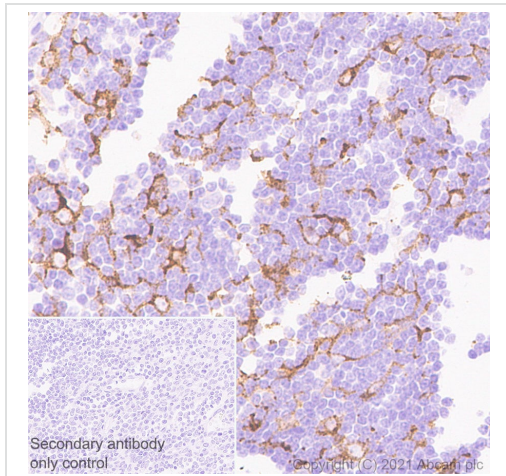
Panel C: anti-LY75/DEC-205 stained on thymic cortical epithelium and dendritic cells.

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.

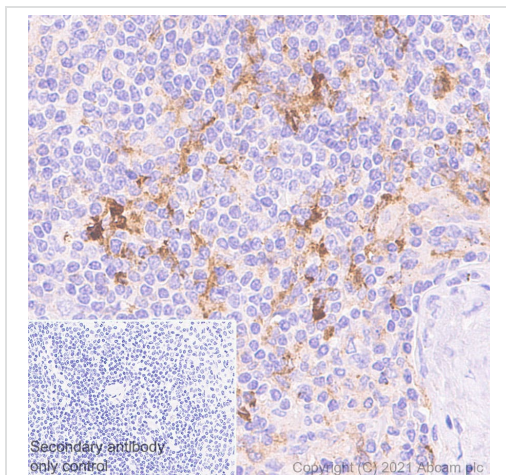
DAPI was used as a nuclear counterstain.

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] (ab124897)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thymus 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LY75/DEC-205 antibody [EPR5233] (ab124897)

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.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-LY75/DEC-205 antibody [EPR5233] (ab124897)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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