

### Anti-CD45RA antibody [MRC OX-33] ab33933

**2 References**   **2 图像**

#### 概述

产品名称	Anti-CD45RA抗体[MRC OX-33]
描述	小鼠单克隆抗体[MRC OX-33] to CD45RA
宿主	Mouse
经测试应用	适用于: IHC-Fr, Flow Cyt
种属反应性	与反应: Rat, Human
免疫原	Full length native protein (purified) corresponding to Rat CD45RA. Purified spleen leucocyte common antigen.
阳性对照	Flow Cyt: Lewis rat splenocytes. IHC-Fr: Rat Spleen
常规说明	<p>Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U myeloma cell line. This clone has been described reacting with paraffin embedded material following PLP fixation (see Whiteland et al., 1995). It only labels B cells among thoracic duct lymphocytes, with little labelling in bone marrow and none on thymocytes (Barclay et al., 1987).</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>
纯度	Protein G purified

纯化说明	This antibody was purified from tissue culture supernatant.
Primary antibody说明	Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U myeloma cell line. This clone has been described reacting with paraffin embedded material following PLP fixation (see Whiteland et al., 1995). It only labels B cells among thoracic duct lymphocytes, with little labelling in bone marrow and none on thymocytes (Barclay et al., 1987).
克隆	单克隆
克隆编号	MRC OX-33
同种型	IgG1
轻链类型	kappa

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab33933于以下的经测试应用

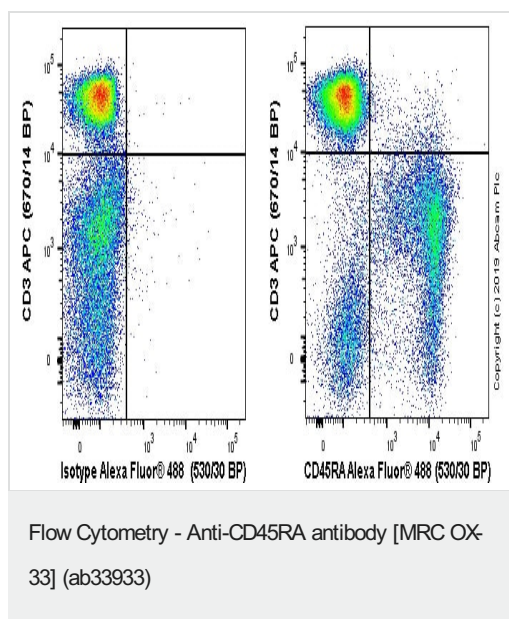
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-Fr		Use a concentration of 1 µg/ml.
Flow Cyt		Use a concentration of 0.2 µg/ml. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能	Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity.
疾病相关	Severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive Multiple sclerosis
序列相似性	Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily. Contains 2 fibronectin type-III domains. Contains 2 tyrosine-protein phosphatase domains.
结构域	The first PTPase domain interacts with SKAP1.
翻译后修饰	Heavily N- and O-glycosylated.
细胞定位	Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts.

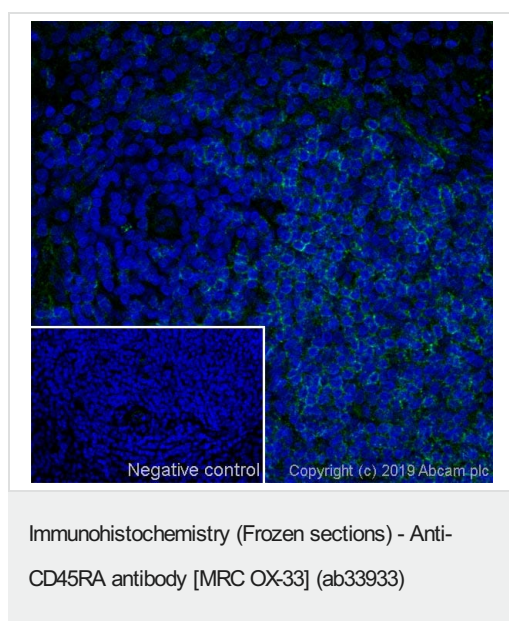
图片



Lewis rat splenocytes stained with ab33933 (right) or mouse IgG1k (**ab170190**) isotype (left). Lewis rat splenocytes were incubated for 30 min on ice in 1x PBS / 10 % rat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab33933) or mouse IgG1k isotype (**ab170190**) ( $1 \times 10^6$  in 100  $\mu$ l at 0.2  $\mu$ g/ml) for 30 min on ice.

The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor® 488, pre-adsorbed) (**ab150177**) was used at 1/2000 dilution for 30 min at 4°C. The cells were simultaneously stained with CD3 antibody.

Acquisition of >30,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter. Events were gated on viable lymphocytes.



IHC image of CD45RA staining in a section of frozen normal Rat Spleen.

The section was fixed using 10% formaldehyde in 1XPBS for 10 minutes. No antigen retrieval step was performed prior to staining. Non-specific protein-protein interactions were then blocked in TBS containing 0.025% (v/v) Triton X-100, 0.3M glycine and 1% (w/v) BSA for 1h at room temperature. The section was then incubated overnight at +4°C in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA with ab33933 at 1  $\mu$ g/ml. The section was then incubated with **ab150117** (Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preabsorbed, (Shown in green) 1/1000) for 1 hour at room temperature. DAPI was used to stain the cell nuclei (blue). The secondary-only control insert image is taken from an identical assay without primary antibody. The section was then mounted using Fluoromount®.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

For IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antibody concentrations and incubation times.

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