abcam

Product datasheet

Anti-CD45RC antibody [MRC OX-22] ab33945

★★★★★ 1 Abreviews 3 References 画像数 3

製品の概要

製品名	Anti-CD45RC antibody [MRC OX-22]
製品の詳細	Mouse monoclonal [MRC OX-22] to CD45RC
由来種	Mouse
アプリケーション	**適用あり:** IHC-Fr, IHC-P, Flow Cyt
種交差性	**交差種:** Rat, Human
免疫原	Tissue, cells or virus corresponding to Rat CD45RC. PHA stimulated rat lymphocytes.
ポジティブ・コントロール	IHC-Fr: Frozen rat spleen. IHC-P: Rat spleen tissue.
特記事項	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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. 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&As

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.02% Sodium azide Constituent: PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	MRC OX-22
ミエローマ	NS1
アイソタイプ	IgG1

軽鎖の種類 kappa

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab33945の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-Fr		Use a concentration of 1 mg/ml. This product gave a positive signal in HeLa cells fixed with 10% formaldehyde (10 min).
IHC-P	★★★★★ (1)	Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt		Use at an assay dependent concentration.

ターゲット情報

機能 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.

関連疾患 Severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive
Multiple sclerosis

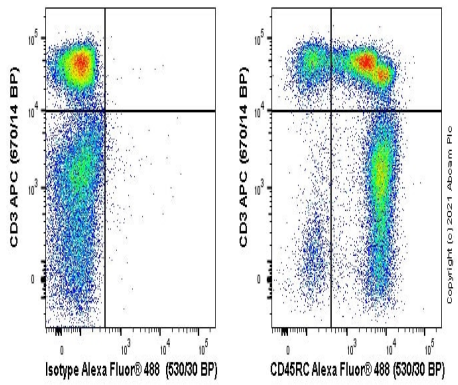
配列類似性 Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily.
Contains 2 fibronectin type-III domains.
Contains 2 tyrosine-protein phosphatase domains.

ドメイン The first PTPase domain interacts with SKAP1.

翻訳後修飾 Heavily N- and O-glycosylated.

細胞内局在 Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts.

画像



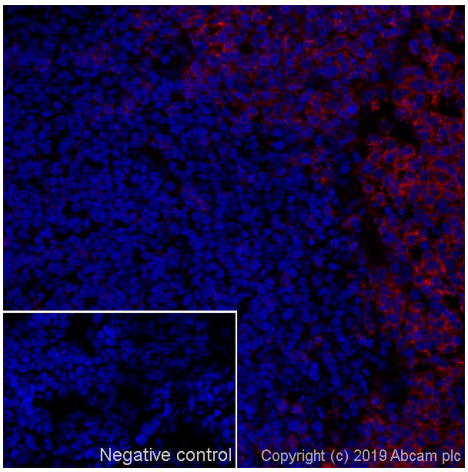
Flow Cytometry - Anti-CD45RC antibody [MRC OX-22] (ab33945)

Flow cytometry staining of Lewis rat splenocytes with ab33945 (right) or mouse IgG1&kappa (**ab170190**) isotype (left). Cells were incubated for 30 min on ice in 1x PBS containing 10 % rat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab33945) or mouse IgG1&kappa (**ab170190**) isotype ($1x10^6$ in 100 µl; at 0.2 µg/ml) for 30 min on ice.

The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor ® 488, pre-adsorbed) (**ab150117**) was used at 1/2000 dilution for 30 min on ice.

The cells were simultaneously stained with CD3 APC.

Acquisition of >30000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter. Events were gated on live single cells.



Immunohistochemistry (Frozen sections) - Anti-CD45RC antibody [MRC OX-22] (ab33945)

IHC image of CD45RC 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 blocked using TBS containing 0.025% (v/v) Triton X-100, 0.3M (w/v) glycine and 3% (w/v) BSA for 1 hour at room temperature. The section was then incubated with ab33945 (1µg/ml dilution) in TBS containing 0.025% (v/v) Triton X-100 and 3% (w/v) BSA overnight at +4°C. The section was then incubated with **ab150119** ((Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 647) (shown in red) and DAPI (staining nuclear DNA) (shown in blue) for 1 hour at room temperature. The section was then mounted using Fluoromount®.

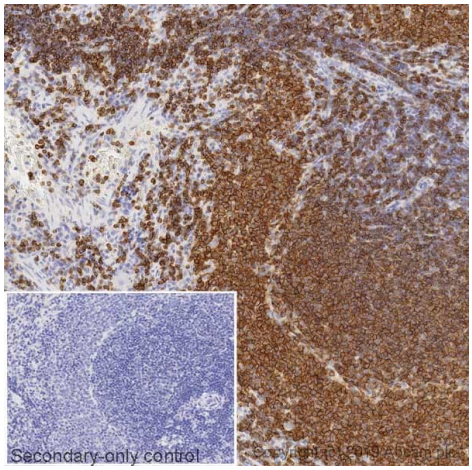
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

The DAPI only control (no antibody) inset shows no autofluorescence, demonstrating that any Alexa Fluor® 647 signal is derived directly from bound ab33945.

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen

retrieval conditions, antibody concentrations and incubation times.

*Tissue obtained from Charles River.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD45RC antibody [MRC OX-22] (ab33945)

IHC image of CD45RC staining in a section of formalin-fixed paraffin-embedded normal rat spleen performed on a Leica BOND™ system using the standard Protocol F. 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 ab33945, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with hematoxylin and mounted with DPX.

The inset secondary-only 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

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