abcam

Product datasheet

Anti-CD45 antibody [MRC OX-1] ab33923

★★★★☆ **3 Abreviews**   **11 References**   1 图像

概述

产品名称	Anti-CD45抗体[MRC OX-1]
描述	小鼠单克隆抗体[MRC OX-1] to CD45
宿主	Mouse
经测试应用	**适用于:** IHC-Fr
种属反应性	**与反应:** Rat **不与反应:** Mouse
免疫原	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-Fr: Rat spleen tissue.
常规说明	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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**.

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	Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	MRC OX-1
骨髓瘤	NS1
同种型	IgG1
轻链类型	kappa

应用

应用	Ab评论	说明
IHC-Fr		Use a concentration of 1 µg/ml.

靶标

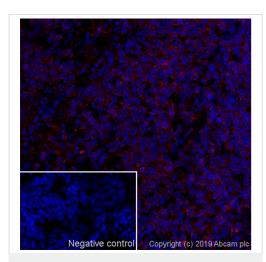|	
功能	Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN.
疾病相关	Defects in PTPRC are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T(-)B(+)NK(+) SCID) [MIM:608971]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development. Genetic variations in PTPRC are involved in multiple sclerosis susceptibility (MS) [MIM:126200]. MS is a neurodegenerative disorder characterized by the gradual accumulation of focal plaques of demyelination particularly in the periventricular areas of the brain. Peripheral nerves are not affected. Onset usually in third or fourth decade with intermittent progression over an extended period. The cause is still uncertain.
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

Immunohistochemistry (Frozen sections) - Anti-CD45 antibody [MRC OX-1] (ab33923)

IHC image of CD45 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 ab33923 (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 ab33923.

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.

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