

Product datasheet

Anti-CD45RO antibody [UCH-L1] ab23

★★★★★ [3 Abreviews](#) [21 References](#) [2 图像](#)

概述

产品名称	Anti-CD45RO抗体[UCH-L1]
描述	小鼠单克隆抗体[UCH-L1] to CD45RO
宿主	Mouse
经测试应用	适用于: WB, IHC-P, Flow Cyt
种属反应性	与反应: Human
免疫原	Tissue, cells or virus corresponding to CD45RO. Cultured T cells from an IL-2-dependent T-cell line (CA1) prepared from human peripheral blood activated with influenza virus.
阳性对照	IHC-P: Human tonsil tissue. WB: Human tonsil and thymus tissue lysate.
常规说明	<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&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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	UCH-L1
骨髓瘤	P3-NS1/1-Ag4-1
同种型	IgG2a

The Abpromise guarantee**Abpromise™承诺保证使用ab23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
WB		Use a concentration of 5 µg/ml. Detects a band of approximately 180 kDa (predicted molecular weight: 131 kDa).
IHC-P	★★★★★ (3)	Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

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

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.

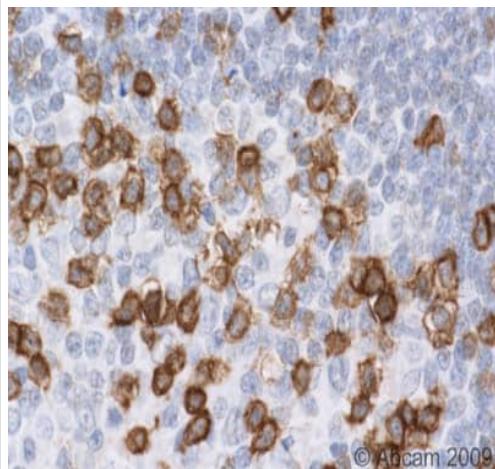
翻译后修饰

Heavily N- and O-glycosylated.

细胞定位

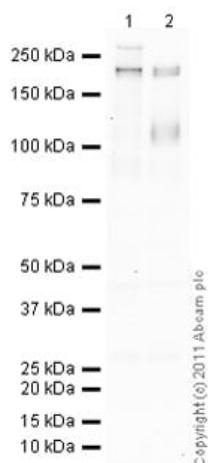
Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD45RO antibody [UCH-L1] (ab23)

ab23 (1 µg/ml) staining CD45RO in human tonsil. Sections were stained using an automated system (DAKO Autostainer Plus), at room temperature: sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffers citrate pH 6.1. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with hematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Western blot - Anti-CD45RO antibody [UCH-L1] (ab23)

All lanes : Anti-CD45RO antibody [UCH-L1] (ab23) at 5 µg/ml

Lane 1 : Human tonsil normal tissue lysate - total protein ([ab29615](#))

Lane 2 : Human thymus tissue lysate - total protein ([ab30146](#))

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed ([ab97040](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 131 kDa

Observed band size: 180 kDa

Additional bands at: 120 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 8 minutes

CD45RO contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.

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