abcam

Product datasheet

Anti-CD45 antibody [I3/2.3] (APC/Cy7®) ab51915

1 References

概述

产品名称	Anti-CD45抗体[I3/2.3] (APC/Cy7®)
描述	大鼠单克隆抗体[I3/2.3] to CD45 (APC/Cy7®)
宿主	Rat
偶联物	APC/Cy7®. Ex: 650nm, Em: 774nm
特异性	ab51915 is specific for CD45 (T200 or leukocyte common antigen/LCA, all isoforms)
经测试应用	**适用于:** IP, IHC-Fr, Flow Cyt
种属反应性	**与反应:** Mouse
免疫原	The details of the immunogen for this antibody are not available.
常规说明	This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5,268,486 and related patents. Cy and CyDye are trademarks of GE Healthcare Limited. This antibody would be useful for radiometric quantitation of CD45 molecules on cell surfaces.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	Preservative: 0.09% Sodium azide Constituents: 16% Sucrose, PBS Also contains stabilising agent.
纯度	IgG fraction
Primary antibody说明	This antibody would be useful for radiometric quantitation of CD45 molecules on cell surfaces.
克隆	单克隆
克隆编号	I3/2.3
同种型	IgG2b

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab51915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
IP		Use at an assay dependent dilution.
IHC-Fr		Use at an assay dependent dilution.
Flow Cyt		Use 0.2µg for 10^6 cells.

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.

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