

## Product datasheet

# Anti-CD45RB antibody [MEM-55] (Allophycocyanin) ab28331

### 1 References

#### 概述

|       |  |
|-------|--|
| 产品名称  | Anti-CD45RB抗体[MEM-55] (Allophycocyanin)                              |
| 描述    | 小鼠单克隆抗体[MEM-55] to CD45RB (Allophycocyanin)                          |
| 宿主    | Mouse  |
| 偶联物   | Allophycocyanin. Ex: 645nm, Em: 660nm                                |
| 经测试应用 | 适用于: Flow Cyt  |
| 种属反应性 | 与反应: Human   |
| 免疫原   | Human thymocytes and T lymphocytes.                                  |
| 表位    | ab28331 reacts with a siliadase sensitive epitope of CD45RB antigen. |

#### 性能

|      |  |
|------|--|
| 形式   | Liquid   |
| 存放说明 | Shipped at 4°C. Store at +4°C.                                 |
| 存储溶液 | Preservative: 15mM Sodium Azide<br>Constituents: 0.2% BSA, PBS |
| 纯化说明 | ab28331 was purified by size exclusion chromatography.         |
| 克隆   | 单克隆  |
| 克隆编号 | MEM-55   |
| 同种型  | IgG1   |

#### 应用

Our [Abpromise guarantee](#) covers the use of **ab28331** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| 应用 | Ab评论 | 说明 |
|----|------|----|
|----|------|----|

Flow Cyt

**应用说明** Flow Cyt: Use 20µl for 10<sup>6</sup> cells, or for 100 µl of whole blood.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

## 靶标

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### 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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