10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-CD45RA-AcalephFluor555-labled

Catalog # AP100349

## Product Information

| | |
|---|---|
| **Application** | FC, IF/IC |
| **Primary Accession** | P08575 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Calculated MW** | 147486 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 5788 |
| **Other Names** | CD45; Receptor-type tyrosine-protein phosphatase C; Leukocyte common antigen; L-CA; T200; CD antigen CD45 |
| **Target/Specificity** | Recognizes human CD45RA |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Mouse IgG2b. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

| | |
|---|---|
| **Name** | PTPRC ( HGNC:9666) |
| **Synonyms** | CD45 |
| **Function** | Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor (PubMed:35767951). 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 (By similarity). Interacts with CLEC10A at antigen presenting cell-T cell contact; CLEC10A on immature dendritic cells recognizes Tn antigen- carrying PTPRC/CD45 receptor on effector T cells and modulates T cell activation threshold to limit autoreactivity. |
| **Cellular Location** | Cell membrane; Single-pass type I membrane protein. Membrane raft. Synapse. Note=Colocalized with DPP4 in membrane rafts. |
| **Tissue Location** | Isoform 1: Detected in thymocytes. Isoform 2: Detected in thymocytes. Isoform 3: Detected in thymocytes. Isoform 4: Not detected in thymocytes. |

Isoform 5: Detected in thymocytes. Isoform 6: Not detected in thymocytes.
Isoform 7: Detected in thymocytes Isoform 8: Not detected in thymocytes.

## Background

AcalephFluor555-labled mouse monoclonal antibody to CD45RA

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.