

## Recombinant CD45RA (Leucocyte Marker) Antibody

Mouse Monoclonal Antibody [Clone rPTPRC/1131]

| Catalog No       | Format  | Size   |
|------------------|---|--------|
| 5788-MSM32-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 5788-MSM32-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 5788-MSM32-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

| Applications               | Tested Dillution | Note  |
|----------------------------|------------------|---|
| Immunohistochemistry (IHC) | 1-2ug/ml         | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB)          | 2-4ug/ml         |   |

### Product Details

|                        |  |
|------------------------|--|
| Clone                  | rPTPRC/1131  |
| Gene Name              | PTPRC  |
| Immunogen              | Recombinant full-length human PTRPC protein  |
| Host                   | Mouse  |
| Clonality              | Monoclonal   |
| Isotype / Light Chain  | IgG1 / Kappa   |
| Mol. Weight of Antigen | 205-220kDa   |
| Cellular Localization  | Cell membrane, Membrane raft   |
| Species Reactivity     | Human  |
| Positive Control       | Daudi, IM9 or human lymphocytes. Human spleen, lymph nodes or tonsils., Raji, Ramos. |

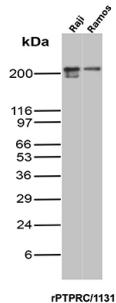
\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant CD45RA (Leucocyte Marker) Antibody

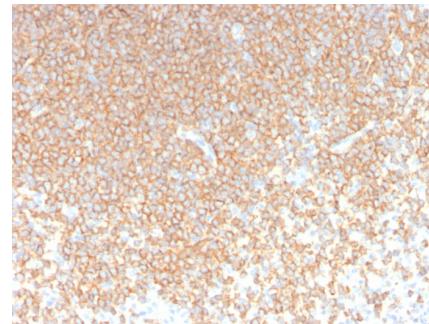


Western Blot Analysis of human Spleen tissue lysates using CD45RA Monoclonal Antibody (rPTPRC/1131).

SDS-PAGE Analysis of Purified CD45RA Monoclonal Antibody (rPTPRC/1131). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of Raji and Ramos cell lysates using CD45RB Recombinant Mouse Monoclonal Antibody (rPTPRC/1131).



Formalin-fixed paraffin-embedded human spleen stained with CD45RA Monoclonal Antibody (rPTPRC/1131).

### Specificity & Comments

Recognizes a protein of 205kDa-220kDa, identified as CD45RA. CD45RA is isoforms of the human leukocyte common antigen (CD45). Human CD45 contains three exons which encode peptide segments designated A, B and C, respectively. The differential splicing of the exons generates at least five isoforms, ABC, AB, BC, B and O. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines. T-cells expressing CD45RA are naive or virgin T-cells. T-cells expressing CD45RO are memory T-cells. CD45RA and CD45RO define complementary, predominantly non-overlapping populations of resting peripheral T-cells. This MAb is useful in study on the subpopulation of CD4+ or CD8+ T-cells. It can especially be used to differentiate T-cell lymphomas (CD45RO +ve) from B cell lymphomas (CD45RA +ve).

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Developmental Biology, Immunology, B Cell Markers, Dendritic Cell Marker, Hematopoietic Stem Cells, Mesenchymal Stem Cell Differentiation