

## 36-3014: Monoclonal Antibody to CD45RA (Clone: 158-4D3)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	158-4D3
<b>Application :</b>	FACS, IF, WB, IHC-P
<b>Reactivity :</b>	Human
<b>Gene :</b>	PTPRC
<b>Gene ID :</b>	5788
<b>Uniprot ID :</b>	P08575
<b>Format :</b>	Purified
<b>Alternative Name :</b>	PTPRC,CD45
<b>Isotype :</b>	Mouse IgG2a, kappa
<b>Immunogen Information :</b>	Stimulated human leukocytes were used as immunogen to generate the CD45RA antibody.

### Description

CD45 (leukocyte common antigen), the most common hematopoietic lineage marker, is a transmembrane glycoprotein tyrosine phosphatase with important roles in immune system signal transduction pathways. Antibody panels have been instrumental in identifying multiple isoforms, including CD45RA. Isoforms differ in their extracellular domain and are generated by alternative splicing of exons 4, 5 and 6 encoding peptide segments called A, B, and C, respectively. At least five different isoforms have been identified in humans: containing all three (ABC), two (AB and BC), one (B) or no (O) exons. A given antibody recognizes either every isoform (CD45 antibody) or only a subset (restricted CD45R antibody). The CD45RA 158-4D3 antibody clone reacts with the ABC and BC isoforms. CD45RA has a molecular weight of 205-220 kDa.

### Product Info

<b>Amount :</b>	100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Flow Cytometry (1-2ug/million cells),Immunofluorescence (1-2ug/ml),Western Blot (1-2ug/ml),Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95Å°C followed by cooling at RT for 20 minutes)

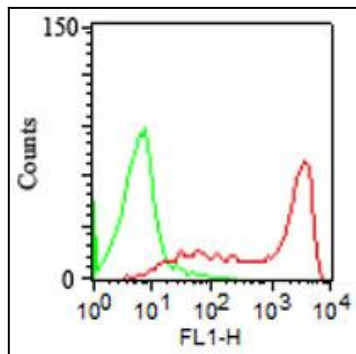


Fig. 1: Cell Surface flow analysis of hCD45RA in PBMC (Lymphocytes gated) using 1  $\mu$ g antibody per  $10^6$  cells. Green represents isotype control (ABEOMICS); red represents anti-hCD45RA antibody (36-3014). Goat anti-mouse FITC conjugated secondary antibody was used (ABEOMICS).

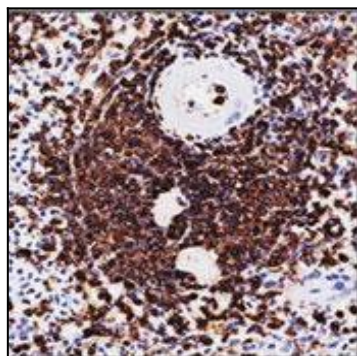


Fig. 2 Immunohistochemical analysis of CD45RA in human spleen using CD45RA antibody (Clone: 158-4D3) at 1:500 dilution.