9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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

Clonality :	Monoclonal
Clone Name :	158-4D3
Application :	FACS
Reactivity :	Human
Gene :	PTPRC
Gene ID :	5788
Uniprot ID :	P08575
Format :	Purified
Alternative Name :	PTPRC,CD45
Isotype :	Mouse IgG2a, kappa
Immunogen Information :	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

Amount :	100 µg
Purification :	Protein G Chromatography
Content :	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.
Storage condition :	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 95Â°C followed by cooling at RT for 20 minutes)

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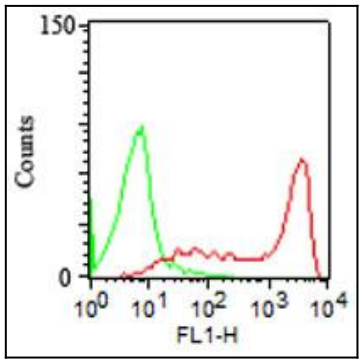


Fig. 1: Cell Surface flow analysis of hCD45RA in PBMC (Lymphocytes gated) using 1 µg antibody per 10^6 cells. Green represents isotype control (ABEOMICS); red represents anti-hCD45RA antibody (36-3014). Goat anti-mouse FITC conjugated secondary antibody was used (ABEOMICS).

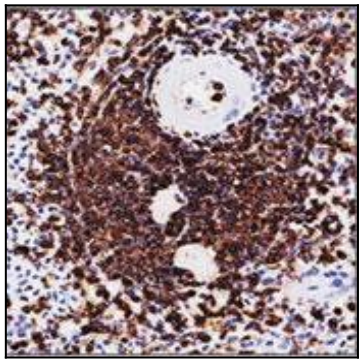


Fig: 2 Immunohistochemical analysis of CD45RA in human spleen using CD45RA antibody (Clone: 158-4D3) at 1:500 dilution.

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