

DESCRIPTION

Species Reactivity	Human
Specificity	Detects CD45RA in direct ELISA.
Source	Monoclonal Mouse IgG ₁ Clone # 1069433
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Whole cell transfectant expressing CD45RA Accession # P08575
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Flow Cytometry	Titration recommended for optimal concentration with starting range of 0.1-1 µg/1 million cells. Sample used for this experiment was PBMC lymphocytes.
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PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

This monoclonal antibody specifically binds to the 220 kDa isoform of human CD45, CD45RA. CD45RA is a single chain type I glycoprotein that is encoded by the human PTPRC gene. In humans, CD45RA is one of six isoforms of the CD45 complex. These different isoforms are the result of alternative splicing and some of the other isoforms include CD45RO, CD45RB, and CD45RC. CD45RO, CD45RB, CD45RC, and CD45RA are primarily expressed on T cells. CD45RA contains exon 4 but lacks both exons 5 and 6. CD45RO contains exons 3, 7, and 8 but not RA, RB, and RC exons. Phenotypically, CD45RA is highly expressed on naïve T cells whereas CD45RO is expressed on activated and memory T cells. Other cell types such as activated monocytes and B cells can also express CD45RO. Both CD45RA and CD45RO are used to characterize different subsets of Memory T cells.

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