

## BF488 Mouse Anti-Human CD45RO

Purified BF488-conjugated Recombinant Mouse Monoclonal Antibody

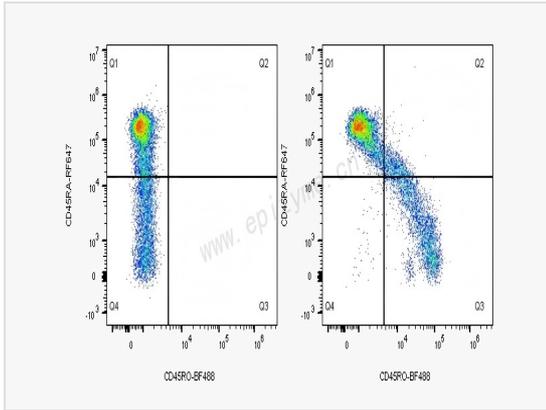
Catalog # F102206

### Product Information

Application	FC
Recommended Usage	5 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood.
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone No.	23J73I76
Isotype	IgG2a, $\kappa$
Label	BF488
Format	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA.
Storage	Shipped on wet ice. Store undiluted between 2°C and 8°C and protected from prolonged exposure to light. Do not freeze.
Precautions	BF488 Mouse Anti-Human CD45RO [23J73I76] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	B220; CD45; CD45R; GP180; IMD105; L-CA; LCA; LY5; T200; Ly-5; L $\gamma$ t-4; loc; RT7; PTPRC_HUMAN; PTPRC; Leukocyte common antigen (L-CA); 3.1.3.48; Lymphocyte antigen 5 (Ly-5); receptor-type tyrosine-protein phosphatase C.
Uniprot ID	P08575
Gene ID	5788
Background	CD45RO is a 180 kD single chain membrane glycoprotein. It is a splice variant of tyrosine phosphatase CD45, lacking the A, B, and C determinants. The CD45RO isoform is expressed on activated and memory T cells, some B cell subsets, activated monocytes/macrophages, and granulocytes. CD45RO enhances both T cell receptor and B cell receptor signaling mediated activation. CD45 and its isoforms non-covalently associate with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4. CD45 has also been reported to bind galectin-1 and CD22. CD45 isoform expression can change in response to cytokines.
Cellular Location	Cell membrane; Single-pass type I membrane protein Membrane raft Synapse Note: Colocalized with DPP4 in membrane rafts.



Typical flow-cytometry plots of human peripheral-blood leukocytes stained with anti-CD45RA-RF647 (F102106) and anti-CD45RO-BF488 (F102206) (right) or with anti-CD45RA-RF647 (F102106) alone as a control (left).