bio-techne® RDSYSTEMS

Human CD45RA mFluor™ Violet 500-Conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 1069433 Catalog Number: FAB11444MFV500 100 Tests

DESCRIPTION			
Species Reactivity	Human		
Source	Monoclonal Mouse IgG _{2A} Clone # 1069433		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Whole cells (naïve T cells) Accession # P08575		
Conjugate	mFluor™ Violet 500 Excitation Wavelength: 410 nm Emission Wavelength: 501 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. See Certificate of Analysis for details.		
	*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.				
	Recommended	Sample		
	Concentration			
Flow Cytometry	5 µL/10 ⁶ cells	PBMC lymphocytes		

DATA		
Flow Cytometry	Detection of CD45RA in PBMC Jymphocytes by Flow Cytometry PBMC lymphocytes were stained with Mouse Anti-Human CD45RO PE-conjugated Monoclonal Antibody (Catalog # FAB10642P) and either (A) Mouse Anti-Human CD45RA mFluor [™] Violet 500- Conjugated Monoclonal Antibody (Catalog # FAB11444MFV500) or (B) unstained. View our protocol for Staining Membrane- associated Proteins.	
PREPARATION AND S	TORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Do not freeze.	

• 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.

PRODUCT SPECIFIC NOTICES

 $\rm mFluor^{TM}$ is a trademark of AAT Bioquest, Inc.

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