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## CD161/KLRB1 (HP-3G10) Mouse mAb (violetFluor™ 450 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-L	H	Endogenous	Mouse IgG1 kappa	#Q12918	3820
<b>Product Usage Information</b>	<b>Application</b>				<b>Dilution</b>
	Flow Cytometry (Live)				1:20
<b>Storage</b>	Supplied in 10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% NaN <sub>3</sub> , 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
<b>Specificity/Sensitivity</b>	CD161/KLRB1 (HP-3G10) Mouse mAb (violetFour™ 450 Conjugate) recognizes endogenous levels of total CD161/KLRB1 protein. This antibody detects an epitope within the extracellular domain.				
<b>Source / Purification</b>	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.				
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to violetFluor™ 450 and tested in-house for direct flow cytometric analysis in human cells.				
<b>Background</b>	CD161/KLRB1 (Killer cell lectin-like receptor subfamily B member 1, also known as CLEC5B and NKR-P1A) is a type II transmembrane protein that is expressed on the majority of Natural Killer (NK) cells, NK T cells, and some T lymphocytes (1). CD161/KLRB1 is also expressed on Th17 cells, promotes their generation, and modulates their function (2). Engagement with its ligand lectin-like transcript 1 (LLT1) inhibits NK cell function, while LLT1 and CD161/KLRB1 interaction in the presence of a TCR signal enhances IFN-gamma production by T cells (3,4). There are several different CD161 isoforms in rodents and some function as activating receptors as well (5,6).				
<b>Background References</b>	<ol style="list-style-type: none"> <li>Lanier, L.L. et al. (1994) <i>J Immunol</i> 153, 2417-28.</li> <li>Bai, A. et al. (2014) <i>J Immunol</i> 193, 3366-77.</li> <li>Aldemir, H. et al. (2005) <i>J Immunol</i> 175, 7791-5.</li> <li>Rosen, D.B. et al. (2005) <i>J Immunol</i> 175, 7796-9.</li> <li>Carlyle, J.R. et al. (2006) <i>J Immunol</i> 176, 7511-24.</li> <li>Kirkham, C.L. and Carlyle, J.R. (2014) <i>Front Immunol</i> 5, 214.</li> </ol>				

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Applications Key** **FC-L:** Flow Cytometry (Live)

**Cross-Reactivity Key** **H:** Human

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