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## CD161/KLRB1 (HP-3G10) Mouse mAb (APC Conjugate)

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

<b>Applications:</b> FC-L	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1 kappa	<b>UniProt ID:</b> #Q12918	<b>Entrez-Gene Id:</b> 3820
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Live)	<b>Dilution</b> 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 (APC 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 APC 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>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-L:</b> Flow Cytometry (Live)
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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