Revision 4

Store at +4C

#83130

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

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-L	H	Endogenous	Mouse IgG1 kappa	#Q12918	3820

Product Usage Information

Application	Dilution
Flow Cytometry (Live)	1:20

Storage

Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4ºC. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

CD161/KLRB1 (HP-3G10) Mouse mAb (PE Conjugate) recognizes endogenous levels of total CD161/KLRB1 protein. This antibody detects an epitope within the extracellular domain.

Source / Purification

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.

Description

This Cell Signaling Technology antibody is conjugated to PE and tested in-house for direct flow cytometric analysis in human cells.

Background

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).
This HP-3G10 antibody is used for flow cytometric analysis of CD161/KLRB1 expression on NK, NKT, and various subsets of T cells.

Background References

1. Lanier, L.L. et al. (1994) *J Immunol* 153, 2417-28.
2. Bai, A. et al. (2014) *J Immunol* 193, 3366-77.
3. Aldemir, H. et al. (2005) *J Immunol* 175, 7791-5.
4. Rosen, D.B. et al. (2005) *J Immunol* 175, 7796-9.
5. Carlyle, J.R. et al. (2006) *J Immunol* 176, 7511-24.
6. Kirkham, C.L. and Carlyle, J.R. (2014) *Front Immunol* 5, 214.

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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Limited Uses

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