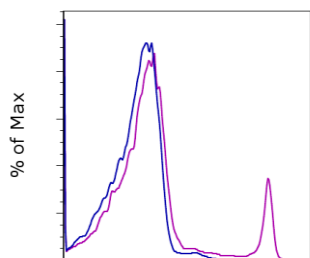


Anti-Rat CD161 PerCP-eFluor[®] 710

Catalog Number: 46-1610

Also known as: NKR-P1A, KLRB1

RUO: For Research Use Only. Not for use in diagnostic procedures.



CD161 PerCP-eFluor 710

Staining of rat splenocytes with 0.06 ug of Mouse IgG1 K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4714) (blue histogram) or 0.06 ug of Anti-Rat CD161 PerCP-eFluor[®] 710 (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Rat CD161 PerCP-eFluor[®] 710



Catalog Number: 46-1610

Clone: 10/78

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG1, kappa



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.



Batch Code: Refer to vial



Use By: Refer to vial



Contains sodium azide

Description

This 10/78 monoclonal antibody recognizes rat CD161a, which is also known as NKR-P1A. A member of the NKR-P1 family of type II transmembrane C-type lectins, CD161a exists as a homodimer on all NK cells, some T cells, and monocytes. In the rat, this activating receptor is also detectable on B220+ single positive B cells. CD161a is involved in activating NK cell-mediated cytotoxicity via phosphoinositide turnover and intracellular calcium mobilization.

The 10/78 monoclonal antibody has been reported to recognize both NKR-P1A and NKR-P1B.

Applications Reported

This 10/78 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 10/78 antibody has been tested by flow cytometric analysis of rat splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor[®] 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

References

Hess S, Methe H, Kim JO, Edelman ER. NF-kappaB activity in endothelial cells is modulated by cell substratum interactions and influences chemokine-mediated adhesion of natural killer cells. Cell Transplant. 2009;18(3):261-73.

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(10/78, IHC-p)

Li J, Rabinovich BA, Hurren R, Shannon J, Miller RG. Expression cloning and function of the rat NK activating and inhibitory receptors NKR-P1A and -P1B. *Int Immunol.* 2003 Mar;15(3):411-6. (10/78, FC)

Ryan JC, Niemi EC, Goldfien RD, Hiserodt JC, Seaman WE. NKR-P1, an activating molecule on rat natural killer cells, stimulates phosphoinositide turnover and a rise in intracellular calcium. *J Immunol.* 1991 Nov 1;147(9):3244-50.

Scriba A, Schneider M, Grau V, van der Meide PH, Steiniger B. Rat monocytes up-regulate NKR-P1A and down-modulate CD4 and CD43 during activation in vivo: monocyte subpopulations in normal and IFN-gamma-treated rats. *J Leukoc Biol.* 1997 Dec;62(6):741-52.

Ryan JC, Niemi EC, Nakamura MC, Seaman WE. NKR-P1A is a target-specific receptor that activates natural killer cell cytotoxicity. *J Exp Med.* 1995 May 1;181(5):1911-5.

Related Products

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)