

#19809

NK1.1/CD161 (PK136) Mouse mAb (redFluor[™] 710 Conjugate)



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

| Applications: FC-FP, FC-L | Reactivity: M | Sensitivity: Endogenous | Source/Isotype: Mouse IgG2a kappa | UniProt ID: #P27814 | Entrez-Gene Id: 17059 |
|-------------------------------------|-------------------------|--|---|------------------------|--------------------------|
| Product Usage Information | | For optimal flow cytometry results, we recommend 0.125 μg of antibody per test. | | | |
| Information | | Application | | | Dilution |
| | | Flow Cytometry (Fixed/Permeabilized) | | | 1:160 |
| | | Flow Cytometry (Live) | | | 1:160 |
| 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 4° C. Do not aliquot the antibody. Protect from light. Do not freeze. | | | |
| Specificity/Sensitivity | | NK1.1/CD161 (PK136) Mouse mAb (redFluor™ 710 Conjugate) recognizes endogenous levels of total NK1.1/CD161 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 redFluor™ 710 and tested in-house for direct flow cytometric analysis in mouse 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, N 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 rodent and some function as activating receptors as well (5,6). | | | |
| | | There is a family of Klrb1 genes in rodents (7). PK136 antibody recognizes a specific epitope on mouse KLRB1b/c, also referred to as NK1.1, and is commonly used for detection of mouse NK cells in certain mouse strains (CE, B6, NZB, C58, Ma/My, ST, SJL, FVB). However, the epitope is absent in other mouse strains (BALB/c, AKR, CBA, C3H, DBA, 129) (8). | | | |
| Background Refe | rences | 1. Lanier, L.L. et al. (1994) <i>J Immunol</i> 153, 2417-28. 2. Bai, A. et al. (2014) <i>J Immunol</i> 193, 3366-77. 3. Aldemir, H. et al. (2005) <i>J Immunol</i> 175, 7791-5. 4. Rosen, D.B. et al. (2005) <i>J Immunol</i> 175, 7796-9. 5. Carlyle, J.R. et al. (2006) <i>J Immunol</i> 176, 7511-24. 6. Kirkham, C.L. and Carlyle, J.R. (2014) <i>Front Immunol</i> 5, 214. 7. Kirkham, C.L. and Carlyle, J.R. (2014) <i>Front Immunol</i> 5, 214. 8. Carlyle, J.R. et al. (2006) <i>J Immunol</i> 176, 7511-24. | | | |

Species Reactivity

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

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

M: Mouse

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