

Product Data Sheet

Biotin anti-mouse/human KLRG1 (MAFA)

Catalog # / Size: 138405 / 50 µg
138406 / 500 µg

Clone: 2F1/KLRG1

Isotype: Syrian hamster IgG

Immunogen: IL-2 activated NK cells from C57BL/6 mice

Reactivity: Mouse, Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Applications:

Applications: FC - Quality tested
WB - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for relevant formats) include: Western Blotting¹.

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Application References: 1. Robbins SH, et al. 2002. *J. Immunol.* 168:2585. (WB)
2. Robbins SH, et al. 2003. *J. Immunol.* 170:5876. (FC)
3. McMahon CW, et al. 2002. *J. Immunol.* 169:1444. (FC)

Description: Killer cell lectin-like receptor G1 (KLRG1) is the mouse homolog of the rat mast cell function-associated antigen (MAFA or 2F1-Ag). KLRG1 is a type II membrane glycoprotein that was first identified on the surface of rat mast cell line RBL-2H3. It is composed of a homodimer of glycosylated 30-38 kD subunits. Mouse and human homologs of KLRG1 are expressed by subsets of NK cells and lymphokine-activated killer (LAK) cells but not mast cells. KLRG1 is also expressed on subsets of CD8⁺ and CD4⁺ cells, including CD4⁺ and CD8⁺ effector/memory cells, potent regulatory CD4⁺ T cells. KLRG1 may be involved in regulating NK cell homeostasis. KLRG1 was recently found to recognize cadherins and thus inhibit immune responses by regulating the effector function and the developmental processes of NK and T cells.

Antigen References: 1. Grundemann C, et al. 2006. *J. Immunol.* 176:1311.
2. Blaser C, et al. 1998. *J. Immunol.* 161:6451.
3. Huntington ND, et al. 2007. *J. Immunol.* 178:4764.
4. Voehringer D, et al. 2001. *J. Immunol.* 167:4834.

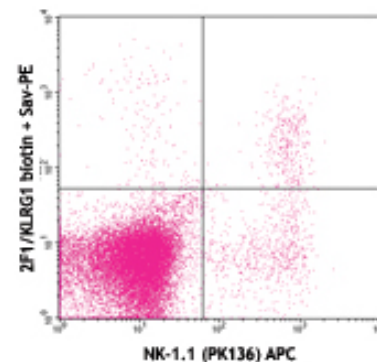
Related Products:

Product
Biotin Syrian Hamster IgG Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)
TruStain fcX™ (anti-mouse CD16/32)

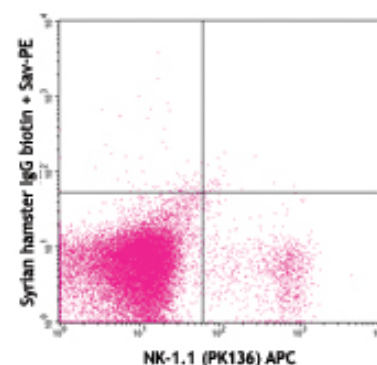
Clone
SHG-1

93

Application
FC, ICFC
FC, ICC, ICFC
FC, ICFC
FC



C57BL/6 mouse splenocytes stained with NK-1.1 (PK136) APC and biotinylated 2F1/KLRG1, followed by Sav-PE



C57BL/6 mouse splenocytes stained with NK-1.1 (PK136) APC and biotinylated Syrian hamster IgG, followed by Sav-PE



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