

## Purified anti-mouse/human KLRG1 (MAFA)

**Catalog # / Size:** 138402 / 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.  
**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.

## 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 Blotting<sup>1</sup>.

*This product may be used for research purposes only. It is not licensed for resale and may only be used by the buyer. This product may not be used and is not licensed for clinical assays, where the results of such assays are provided as a diagnostic service. If a diagnostic or therapeutic use is anticipated, then a license must be requested from the University of California. The availability of such diagnostic and therapeutic use license(s) cannot be guaranteed from the University of California.*

**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<sup>+</sup> and CD4<sup>+</sup> cells, including CD4<sup>+</sup> and CD8<sup>+</sup> effector/memory cells, potent regulatory CD4<sup>+</sup> 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.

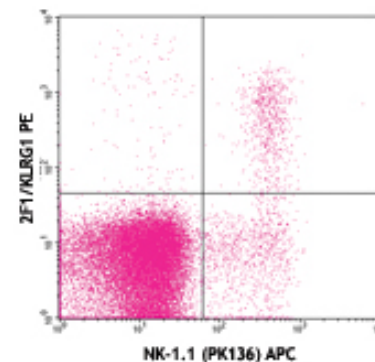
**Antigen References:** 1. Grundemann C, et al. 2006. *J. Immunol.* 176:1311.  
 2. Blaser C, et al. 1998. *J. Immunol.* 161:6451.  
 3. Huntington ND, et al. 2007. *J. Immunol.* 178:4764.  
 4. Voehringer D, et al. 2001. *J. Immunol.* 167:4834.

### Related Products:

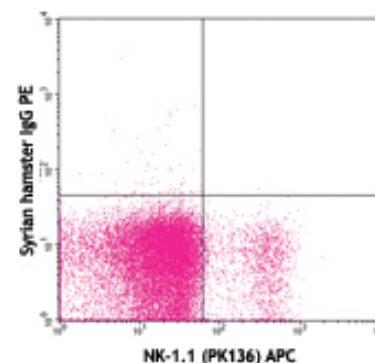
**Product**  
 Purified Syrian Hamster IgG Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**  
 SHG-1

**Application**  
 FC, ICC, ICFC, IF, IHC, IP, WB  
 FC, ICC, ICFC  
 FC, ICFC



C57BL/6 mouse splenocytes stained with NK-1.1 (PK136) APC and purified 2F1/KLRG1 conjugated with PE



C57BL/6 mouse splenocytes stained with NK-1.1 (PK136) APC and Syrian hamster IgG PE isotype control



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