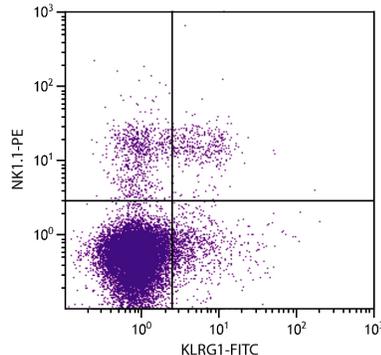




Hamster Anti-Mouse KLRG1

Cat. No.	Format	Size
1807-01	Purified (UNLB)	0.5 mg
1807-02	Fluorescein (FITC)	0.5 mg
1807-08	Biotin (BIOT)	0.5 mg
1807-09	R-phycoerythrin (PE)	0.1 mg
1807-09L	R-phycoerythrin (PE)	0.2 mg
1807-14	Low Endotoxin, Azide-Free, (LE/AF)	0.5 mg



C57BL/6 mouse splenocytes were stained with Hamster Anti-Mouse KLRG1-FITC (SB Cat. 1807-02) and Mouse Anti-Mouse NK1.1-PE (SB Cat. No. 1805-09).

Overview

Clone	2F1
Isotype	Hamster (Syrian) IgG ₂
Immunogen	IL-2-activated NK cells (A-LAK cells) from B6 (H-2 ^b) mice
Specificity	Mouse/Human KLRG1; Mr 30-38 kDa
Alternate Name(s)	MAFA, killer cell lectin-like receptor G1, mast cell function-associated-antigen

Description

The monoclonal antibody 2F1 reacts with mouse killer cell lectin-like receptor G1 (KLRG1; formerly known as mouse MAFA), a homodimeric member of the lectin-like type 2 transmembrane receptor family that contain characteristic immunoreceptor tyrosine-based inhibitory motifs (ITIMs) in their cytoplasmic domains. These ITIMs interact with the SH2 domains of protein phosphatases such as SHP-1. The 2F1 antibody stains 30-60% of NK1.1⁺CD3⁻ splenocytes, and a small fraction of T cells in all mouse strains tested (C57BL/6, BALB/c, 129/J, C3H.SW, AKR/J, SJL). Cell surface expression of KLRG1 is up-regulated by expression of MHC class I molecules. The effect of MHC class I expression is indirect, and can be mediated by interactions with class I-specific Ly49 inhibitory receptors.

Applications

FC – Quality tested ¹⁻²¹
 IP – Reported in literature ^{1,2}
 WB-NR – Reported in literature ²

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 μg/10 ⁶ cells
	FITC and BIOT conjugates	≤ 1 μg/10 ⁶ cells
	PE conjugate	≤ 0.2 μg/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

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