

## Anti-Mouse KLRG1 PE

Catalog Number :82112-60

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

### Product Information

**Clone:** 2F1

**Format/Conjugate:** PE

**Concentration:** 0.2 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5

**Isotype:** Golden Syrian Hamster IgG

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The 2F1 monoclonal antibody is specific for the mouse Killer cell Lectin-like Receptor G1 (KLRG1), a homodimer consisting of two N-glycosylated subunits of 30-38 kDa, also known as MAFA (Mast cell Function-associated Antigen). The antigen contains a cytoplasmic motif similar to ITIM (the immunoreceptor tyrosine-based inhibitory motif). KLRG1 is a receptor for cadherin, a family of transmembrane glycoproteins that mediate cell adhesion, and a common marker of T cell senescence. The receptor is believed to play an important role in the innate and adaptive immune system through the regulation of leukocytes. It is expressed on lymphokine-activated killer (LAK) cells, adherent LAK (A-LAK) cells, a sub-set of natural killer (NK) cells, T cells. In NK cells, it inhibits cytokine production and cytotoxicity activity.

The receptor expression was not detected on the mouse peritoneal mast cells, or bone marrow mast cells.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Beyersdorf, N. B., Ding, X., Karp, K., Hanke, T. (2001). Expression of inhibitory killer cell lectin-like receptor G1 identifies unique subpopulations of effector and memory CD8 T cells. *European journal of immunology*,;31(12), 3443-3452.

2. Corral, L., Hanke, T., Vance, R. E., Cado, D., Raulat, D. H. (2000). NK cell expression of the killer cell lectin-like receptor G1 (KLRG1), the mouse homolog of MAFA, is modulated by MHC class I molecules.;*European journal of immunology*,;30(3), 920-930.

3. Robbins, S. H., Terrizzi, S. C., Sydora, B. C., Mikayama, T., Brossay, L. (2003). Differential regulation of killer cell lectin-like receptor G1 expression on T cells.;*The Journal of Immunology*,;170(12), 5876-5885.