

TECHNICAL DATA SHEET

violetFluor™ 450 Anti-Mouse KLRG1 (2F1)

Catalog Number: 75-5893

PRODUCT INFORMATION

Contents: violetFluor™ 450 Anti-Mouse KLRG1

Isotype: Golden Syrian Hamster IgG

Concentration: 0.2 mg/mL

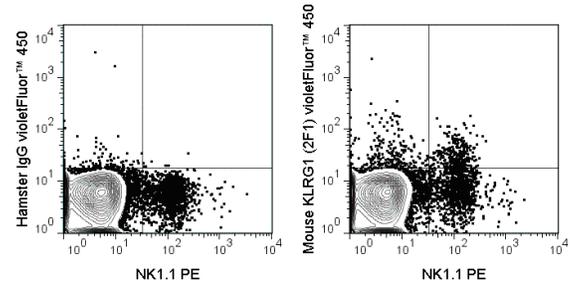
Clone: 2F1

Reactivity: Mouse

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH7.2



C57Bl/6 splenocytes were stained with PE Anti-Mouse NK1.1 and 0.125 µg violetFluor™ 450 Anti-Mouse KLRG1 (75-5893) (right panel) or 0.125 µg violetFluor™ 450 Golden Syrian Hamster IgG (left panel).

DESCRIPTION

The 2F1 antibody reacts with mouse KLRG1 (Killer cell Lectin-like Receptor G1). This 30-38 kDa homodimeric receptor may be expressed by activated, mature NK cells and by effector/memory T cells, with potentially different roles in each cell type. KLRG1 can regulate, in an inhibitory fashion, the development and effector functions of NK cells, and is often cited as a senescence or terminal differentiation marker for T cells. Ligands for KLRG1 include members of the cadherin family of adhesion molecules, specifically N-Cadherin, E-Cadherin, and R-Cadherin. These interactions may induce bidirectional, immunosuppressive signaling in both KLRG- and Cadherin-expressing cells. A more recently identified role for KLRG1-Cadherin signaling in tissue organization, e.g. in cardiac angiogenesis, expands the function of these interactions beyond immunosuppression of immune cells. (Bouchentouf et al. 2010. J. Immunol. 185: 7014-7025). The 2F1 antibody may be used as a phenotypic marker for KLRG1 in mouse, frequently in combination with Anti-Mouse CD127 antibody (clone A7R34), for identification of effector T cell populations.

PREPARATION & STORAGE

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. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

violetFluor™ 450 dye is excited by the violet (405 nm) laser and has a peak emission of 450 nm. The most common band pass filters for this dye are 440/40 or 450/50. violetFluor™ 450 can be used as an alternative for Pacific Blue®, BD Horizon™ V450 or eFluor® 450.

REFERENCES

Thaventhiran JED, Hoffmann A, Magiera L, de la Roche M, Lingel H, Brunner-Weinzierl M, and Fearon DT. 2012. Proc. Natl. Acad. Sci. 10.1073. (Flow cytometry). Tessmer MS, Fugere C, Stevenaert F, Naidenko OV, Chong HJ, Leclercq G, and Brossay L. 2007. Int. Immunol. 19:391-400. (Immunoprecipitation, in vitro blocking, Flow cytometry) Robbins SH, Nguyen KB, Takahashi N, Mikayama T, Biron CA, and Brossay L. 2002. J. Immunol. 168: 2585-2589. (in vitro blocking) Hanke T, Corral L, Vance RE, and Raulet DH. 1998. Eur. J. Immunol. 28(12): 4409-4417. (Origination of 2F1 clone)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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