

KLRG1 Monoclonal Antibody (2F1), PE-Cyanine5.5, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Syrian hamster / IgG
Recommended Isotype Control	Syrian Hamster IgG Isotype Control, PE-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2F1
Conjugate	PE-Cyanine5.5
Excitation/Emission Max	564/692 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2811804

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	9 Publications
Functional Assay (FN)	-	1 Publication

Product Specific Information

Description: This 2F1 monoclonal antibody reacts with the mouse Killer cell Lectin-like Receptor G1 (KLRG1), also known as Mast cell Function-associated Antigen (MAFA). KLRG1 is a homodimer of glycosylated 30-38 kDa subunits and contains a cytoplasmic motif similar to the immunoreceptor tyrosine-based inhibitory motif (ITIM). Rat MAFA was identified as an antigen specific to rat mast cells; however, the expression of mouse KLRG1/MAFA using 2F1 has not been detected on the surface of mouse mast cell lines, bone marrow-derived mast cells, or peritoneal mast cells. This antigen is expressed on approximately one-third of mouse NK cells and a subset of T cells. MHC class I molecules regulate KLRG1 via interactions with class I-specific inhibitory Ly49 molecules and SHP-1 signaling. Although KLRG1 and Ly49 are both lectin-like inhibitory receptors that are regulated by class I MHC expression, the effects of this on cell surface expression of these molecules are opposing, and the underlying regulatory mechanisms distinct.

Applications Reported: This 2F1 antibody has been reported for use in flow cytometric analysis.

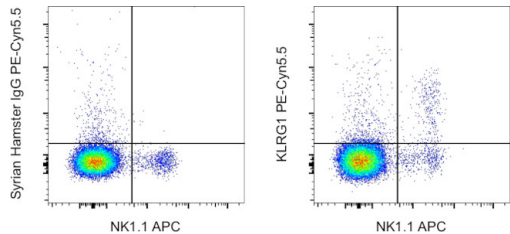
Applications Tested: This 2F1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 695 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Product Images For KLRG1 Monoclonal Antibody (2F1), PE-Cyanine5.5, eBioscience™



KLRG1 Antibody (35-5893-82) in Flow
C57BL/6 mouse splenocytes were stained with NK1.1 Monoclonal Antibody, APC (Product # 17-5941-82) and 0.125 µg of Golden Syrian Hamster IgG Isotype Control, PE-Cyanine5.5 (Product # 35-4914-81) (left) or 0.125 µg of KLRG1 Monoclonal Antibody, PE-Cyanine5.5 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

10 References

Flow Cytometry (9)

Advanced science (Weinheim, Baden-Wurttemberg, Germany)

Group 2 Innate Lymphoid Cells Protect Mice from Abdominal Aortic Aneurysm Formation via IL5 and Eosinophils.

"Published figure using KLRG1 monoclonal antibody (Product # 35-5893-82) in Flow Cytometry"

Authors: Zhang Y,Liu T,Deng Z,Fang W,Zhang X,Zhang S,Wang M,Luo S,Meng Z,Liu J,Sukhova GK,Li D,McKenzie ANJ,Libby P,Shi GP,Guo J

Year
2023

Nature communications

Maturation and specialization of group 2 innate lymphoid cells through the lung-gut axis.

"Published figure using KLRG1 monoclonal antibody (Product # 35-5893-82) in Flow Cytometry"

Authors: Zhao M,Shao F,Yu D,Zhang J,Liu Z,Ma J,Xia P,Wang S

Year
2022

[View more Flow references on thermofisher.cn](#)

Functional Assay (1)

The Journal of cell biology

Cancer cells educate natural killer cells to a metastasis-promoting cell state.

"Published figure using KLRG1 monoclonal antibody (Product # 35-5893-82) in Functional Assay"

Authors: Chan IS,Knútsdóttir H,Ramakrishnan G,Padmanaban V,Warrier M,Ramirez JC,Dunworth M,Zhang H,Jaffee EM,Bader JS,Ewald AJ

Year
2020

More applications with references on thermofisher.cn

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