



KLRG1 Monoclonal Antibody (2F1), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Syrian hamster / IgG
Recommended Isotype Control	Syrian Hamster IgG Isotype Control, Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	2F1
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 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_2744752

Applications	Tested Dilution	Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	10 Publications
Functional Assay (FN)	-	1 Publication

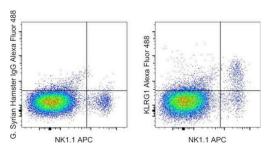
Product Specific Information

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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Product Images For KLRG1 Monoclonal Antibody (2F1), Alexa Fluor™ 488, eBioscience™



KLRG1 Antibody (53-5893-82) 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, Alexa Fluor 488 (Product # 53-4914-82) (left) or 0.125 µg of KLRG1 Monoclonal Antibody, Alexa Fluor 488 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

View more figures on thermofisher.cn

□ 12 References

Immunohistochemistry (PFA fixed) (1)

Nature communications

Mitochondrial transcription factor A in RORt⁺ lymphocytes regulate small intestine homeostasis and metabolism.

"53-5893-82 was used in Immunohistochemistry (PFA fixed) to show that IL-22, a cytokine produced by RORt+ lymphocytes inhibits IL-13-induced tuft cell differentiation in vitro, and suppresses the tuft cell-type 2 immune circuit and small intestine lengthening in vivo, highlighting its key role in gut tissue remodeling."

Authors: Fu Z,Dean JW,Xiong L,Dougherty MW,Oliff KN,Chen ZE,Jobin C,Garrett TJ,Zhou L

Year 2021

Species Mouse

Dilution 1:200

Flow Cytometry (10)

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 # 53-5893-82) 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 # 53-5893-82) 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

EM, Bader JS, Ewald AJ

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

"Published figure using KLRG1 monoclonal antibody (Product # 53-5893-82) in Functional Assay"

Authors: Chan IS,Knútsdóttir H,Ramakrishnan G,Padmanaban V,Warrier M,Ramirez JC,Dunworth M,Zhang H,Jaffee

Year 2020

More applications with references on thermofisher.cn

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