

KLRG1 Monoclonal Antibody (2F1), FITC, 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, FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2F1
Conjugate	FITC
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_1311265

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	20 Publications

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.

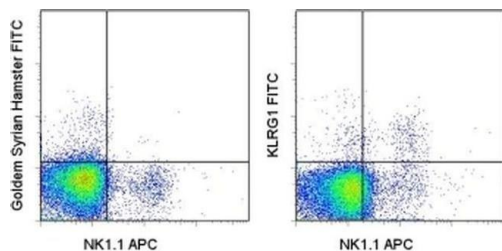
Applications Reported: This 2F1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 2F1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For KLRG1 Monoclonal Antibody (2F1), FITC, eBioscience™



KLRG1 Antibody (11-5893-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse NK1-1 APC (Product # 17-5941-82) and 0.125 µg of Golden Syrian Hamster IgG Isotype Control FITC (Product # 11-4914-81) (left) or 0.125 µg of Anti-Mouse KLRG1 FITC (right). Total viable cells were used for analysis.

[View more figures on thermofisher.com](#)

20 References

Flow Cytometry (20)

Frontiers in immunology

RIPK3 and Caspase-1/11 Are Necessary for Optimal Antigen-Specific CD8 T Cell Response Elicited by Genetically Modified *Listeria monocytogenes*.

"Published figure using KLRG1 monoclonal antibody (Product # 11-5893-82) in Flow Cytometry"

Authors: Rana A, de Almeida FC, Paico Montero HA, Gonzales Carazas MM, Bortoluci KR, Sad S, Amarante-Mendes GP

Species
Not Applicable

Dilution
Not Cited

Year
2021

Oncoimmunology

Compensatory upregulation of PD-1, LAG-3, and CTLA-4 limits the efficacy of single-agent checkpoint blockade in metastatic ovarian cancer.

"Published figure using KLRG1 monoclonal antibody (Product # 11-5893-82) in Flow Cytometry"

Authors: Huang RY, Francois A, McGray AR, Miliotto A, Odunsi K

Species
Mouse

Dilution
Not Cited

Year
2021

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

More applications with references on thermofisher.com

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