

KLRG1 Monoclonal Antibody (13F12F2), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	13F12F2
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573889

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	1 Publication

Product Specific Information

Description: This 13F12F2 monoclonal antibody reacts with human killer cell lectin-like receptor subfamily G, member 1 (KLRG1), a type II transmembrane inhibitor receptor of the C-type lectin superfamily that contains an ITIM domain. This inhibitory receptor is expressed on subsets of gamma-delta T cells, NK (CD56dim), CD8+ and CD4+ T Cells. KLRG1 is expressed primarily by cells with an effector/memory phenotype that are short-lived, but capable of immediate effector cell function. Cadherin-E, -N, and -R are ligands for KLRG1. Cadherin/KLRG1 interaction inhibits cytolytic activity and proliferation. The percentage of KLRG1 positive cells can vary considerably, depending on antigen experience.

The clones 13F12F2 and 13A2 appear to recognize a similar epitope based on cross-blocking studies.

Applications Reported: This 13F12F2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 13F12F2 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (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.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

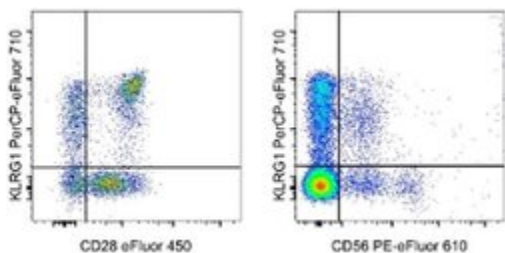
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) 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 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For KLRG1 Monoclonal Antibody (13F12F2), PerCP-eFluor 710, eBioscience™



KLRG1 Antibody (46-9488-42) in Flow

LEFT: Staining of normal human peripheral blood cells with Anti-Human CD28 eFluor® 450 (Product # 48-0289-42) and Anti-Human KLRG1 PerCP-eFluor® 710. CD8+ cells in the lymphocyte gate were used for analysis. RIGHT: Staining of normal human peripheral blood cells with Anti-Human CD56 (NCAM) PE-eFluor® 610 (Product # 61-0567-42) and Anti-Human KLRG1 PerCP-eFluor® 710. Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Nature communications

IL-1, IL-23, and TGF- drive plasticity of human ILC2s towards IL-17-producing ILCs in nasal inflammation.

"Published figure using KLRG1 monoclonal antibody (Product # 46-9488-42) in Flow Cytometry"

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Species
Not Applicable

Dilution
Not Cited

Year
2019

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