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
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 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	3 Publications

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 10^5 to 10^8 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

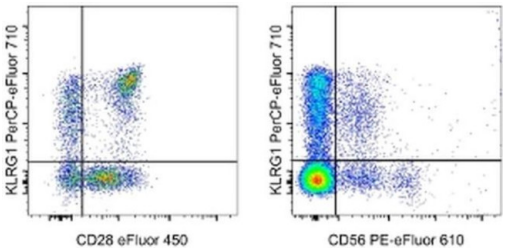
light.

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.

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3 References

Flow Cytometry (3)

STAR protocols

Isolation of tumor-resident CD8$^+$ T cells from human lung tumors.

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

Authors: Corgnac S,Lecluse Y,Mami-Chouaib F

Year
2021

Immunity

PD-1-Expressing SARS-CoV-2-Specific CD8$^+$ T Cells Are Not Exhausted, but Functional in Patients with COVID-19.

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

Authors: Rha MS,Jeong HW,Ko JH,Choi SJ,Seo IH,Lee JS,Sa M,Kim AR,Joo EJ,Ahn JY,Kim JH,Song KH,Kim ES,Oh DH,Ahn MY,Choi HK,Jeon JH,Choi JP,Kim HB,Kim YK,Park SH,Choi WS,Choi JY,Peck KR,Shin EC

Year
2021

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