

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 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

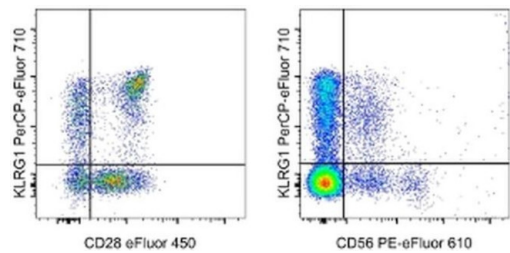
light.

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.

View more figures on thermofisher.com

3 References

Flow Cytometry (3)

STAR protocols	Year 2021
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	
Immunity	Year 2021
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	

View more Flow references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.