

KLRG1 Monoclonal Antibody (13F12F2), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	13F12F2
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS
Contains	no preservative
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2637116

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	6 Publications
Functional Assay (FN)	Assay-Dependent	-

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.

This 13F12F2 antibody has been tested by flow cytometric analysis of human peripheral blood cells. This can be used at less than or equal to 0.5 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.

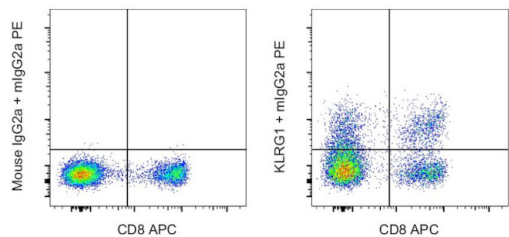
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

Product Images For KLRG1 Monoclonal Antibody (13F12F2), Functional Grade, eBioscience™



KLRG1 Antibody (16-9488-85) in Flow
Normal human peripheral blood cells were stained with CD8 Monoclonal Antibody, APC (Product # 17-0088-42) and 0.25 µg of Mouse IgG2a kappa Isotype Control (Product # 14-4724-85) (left) or 0.25 µg of KLRG1 Monoclonal Antibody, Functional Grade (right) followed by IgG2a Monoclonal Antibody, PE (Product # 12-4210-82). Cells in the lymphocyte gate were used for analysis.

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6 References

Flow Cytometry (6)

Cell reports. Medicine

Immune cell phenotypes associated with disease severity and long-term neutralizing antibody titers after natural dengue virus infection.

"16-9488-85 was used in Flow Cytometry to reveal associations between cellular profiles and disease severity, opening opportunities to study immunopathology in dengue disease and the potential predictive value of these parameters."

Authors: Rouers A, Chng MHY, Lee B, Rajapakse MP, Kaur K, Toh YX, Sathiakumar D, Loy T, Thein TL, Lim VWX, Singhal A, Yeo TW, Leo YS, Vora KA, Casimiro D, Lim B, Tucker-Kellogg L, Rivino L, Newell EW, Fink K

Year
2021

Species
Human

STAR protocols

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

"Published figure using KLRG1 monoclonal antibody (Product # 16-9488-85) in Flow Cytometry"

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

Year
2021

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