KLRG1 Monoclonal Antibody (13F12F2), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	13F12F2
Conjugate	Alexa Fluor™ 488
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_2574451

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	2 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.

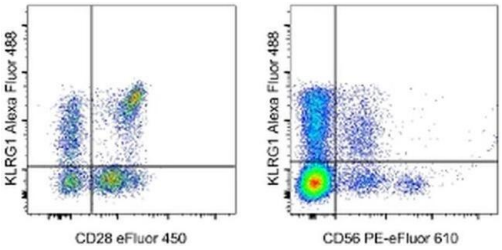
Applications Reported: This 13F12F2 antibody has been reported for use in flow cytometric analysis.

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 (0.5 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 10^5 to 10^8 cells/test.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For KLRG1 Monoclonal Antibody (13F12F2), Alexa Fluor™ 488, eBioscience™



KLRG1 Antibody (53-9488-42) in Flow
LEFT: Staining of normal human peripheral blood cells with Anti-Human CD28 eFluor® 450 (Product # 48-0289-42) and Anti-Human KLRG1 Alexa Fluor® 488. 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 Alexa Fluor® 488. Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

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 # 53-9488-42) in Flow Cytometry"

Authors: Golebski K,Ros XR,Nagasawa M,van Tol S,Heesters BA,Aglmous H,Kradolfer CMA,Shikhagaie MM,Seys S, Hellings PW,van Drunen CM,Fokkens WJ,Spits H,Bal SM

Species
Not Applicable

Dilution
Not Cited

Year
2019

European journal of immunology

Guidelines for the use of flow cytometry and cell sorting in immunological studies.

"53-9488 was used in Flow cytometry/Cell sorting to collect the currently accepted best methods for monitoring most of the variation of the major players of immune system."

Authors: Cossarizza A,Chang HD,Radbruch A,Akdis M,Andrä I,Annunziato F,Bacher P,Barnaba V,Battistini L,Bauer WM,Baumgart S,Becher B,Beisker W,Berek C,Blanco A,Borsellino G,Boulais PE,Brinkman RR,Büscher M,Busch DH, Bushnell TP,Cao X,Cavani A,Chattopadhyay PK,Cheng Q,Chow S,Clerici M,Cooke A,Cosma A,Cosmi L,Cumano A, Dang VD,Davies D,De Biasi S,Del Zotto G,Della Bella S,Dellabona P,Deniz G,Dessing M,Diefenbach A,Di Santo J,Dieli F,Dolf A,Donnenberg VS,Dörner T,Ehrhardt GRA,Endl E,Engel P,Engelhardt B,Esser C,Everts B,Dreher A,Falk CS, Fehniger TA,Filby A,Fillatreau S,Follo M,Förster I,Foster J,Foulds GA,Frenette PS,Galbraith D,Garbi N,García-Godoy MD,Geginat J,Ghoreschi K,Gibellini L,Goettlinger C,Goodyear CS,Gori A,Grogan J,Gross M,Grützkau A,Grummitt D, Hahn J,Hammer Q,Hauser AE,Haviland DL,Hedley D,Herrera G,Herrmann M,Hiepe F,Holland T,Hombrink P,Houston JP,Hoyer BF,Huang B,Hunter CA,Iannone A,Jäck HM,Jávega B,Jonjic S,Juelke K,Jung S,Kaiser T,Kalina T,Keller B, Khan S,Kienhöfer D,Kroneis T,Kunkel D,Kurts C,Kvistborg P,Lannigan J,Lantz O,Larbi A,LeibundGut-Landmann S, Leipold MD,Levings MK,Litwin V,Liu Y,Lohoff M,Lombardi G,Lopez L,Lovett-Racke A,Lubberts E,Ludewig B,Lugli E, Maecker HT,Martrus G,Matarese G,Mauerö der C,McGrath M,McInnes I,Mei HE,Melchers F,Melzer S,Mielenz D,Mills K, Mirrer D,Mjösberg J,Moore J,Moran B,Moretta A,Moretta L,Mosmann TR,Müller S,Müller W,Münz C,Multhoff G,Munoz LE,Murphy KM,Nakayama T,Nasi M,Neudörfl C,Nolan J,Nourshargh S,O'Connor JE,Ouyang W,Oxenius A,Palankar R, Panse I,Peterson P,Peth C,Petriz J,Philips D,Pickl W,Piconese S,Pinti M,Pockley AG,Podolska MJ,Pucillo C,Quataert SA,Radstake TRDJ,Rajwa B,Rebhahn JA,Recktenwald D,Remmerswaal EBM,Rezvani K,Rico LG,Robinson JP, Romagnani C,Rubartelli A,Ruckert B,Ruland J,Sakaguchi S,Sala-de-Oyanguren F,Samstag Y,Sanderson S,Sawitzki B, Scheffold A,Schiemann M,Schildberg F,Schimisky E,Schmid SA,Schmitt S,Schober K,Schüler T,Schulz AR, Schumacher T,Scotta C,Shankey TV,Shemer A,Simon AK,Spidlen J,Stall AM,Stark R,Stehle C,Stein M,Steinmetz T, Stockinger H,Takahama Y,Tarnok A,Tian Z,Toldi G,Tornack J,Traggiai E,Trotter J,Ulrich H,van der Braber M,van Lier RAW,Veldhoen M,Vento-Asturias S,Vieira P,Voehringer D,Volk HD,von Volkmann K,Waisman A,Walker R,Ward MD, Warnatz K,Warth S,Watson JV,Watzl C,Wegener L,Wiedemann A,Wienands J,Willimsky G,Wing J,Wurst P,Yu L,Yue A, Zhang Q,Zhao Y,Ziegler S,Zimmermann J

Species
Human

Dilution
Not Cited

Year
2017