Human KLRG1
Alexa Fluor® 488-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2388C
Catalog Number: FAB70293G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human KLRG1 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2388C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human KLRG1 Leu60-Phe195 Accession # Q96E93
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10^6 cells	Human peripheral blood

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

KLRG1 (killer cell lectin-like receptor G1), also called MAFA (mast cell function associated), is a 30-38 kDa type II transmembrane inhibitory glycoprotein of the C-type lectin family, designated CLEC15A. KLRG1 cDNA encodes 195 amino acids (aa) including an intracellular ITIM motif and a 136 aa extracellular domain (ECD) with a single C-type lectin domain. The human KLRG1 ECD shares 57% and 54% aa identity with mouse and rat KLRG1, respectively. A 189 aa isoform diverges at aa 186. KLRG1 binds E-, N- and R-cadherins and functions as an MHC-independent means of identifying non-self pathogens and epithelial tumor cells with low E-cadherin expression. It is expressed as a monomer or disulfide-linked homodimer on NK and T cell subsets such as tumor-infiltrating lymphocytes.

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