Human KLRG1 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2388C
Catalog Number: MAB70293

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
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

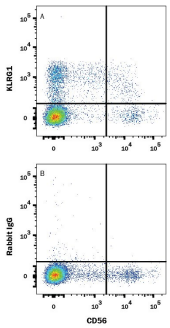
APPLICATIONS

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 µg/10^6 cells	See Below
Immunohistochemistry	3-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

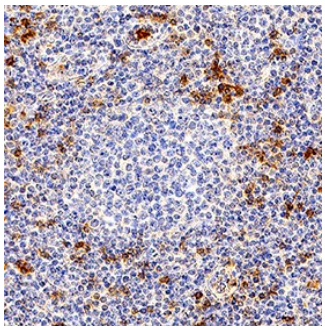
DATA

Flow Cytometry



Detection of KLRG1 in Human Peripheral Blood by Flow Cytometry. Human peripheral blood was stained with (A) Rabbit anti-Human KLRG1 Monoclonal Antibody (Catalog # MAB70293) or (B) Rabbit IgG control antibody (Catalog # MAB1050) followed by APC-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111) and CD56 PE-conjugated Monoclonal Antibody (Catalog # FAB2408P). View our protocol for Staining Membrane-associated Proteins.

Immunohistochemistry



KLRG1 in Human Tonsil. KLRG1 was detected in immersion fixed paraffin-embedded sections of human tonsil using Rabbit Anti-Human KLRG1 Monoclonal Antibody (Catalog # MAB70293) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in lymphocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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