Human KLRG1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 697213

Catalog Number: MAB70291

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human KLRG1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 697213
Purification	Protein A or G purified from hybridoma 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.

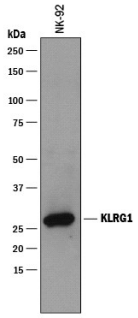
APPLICATIONS

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
Western Blot	2 µg/mL	See Below

DATA

Western Blot



Detection of Human KLRG1 by Western Blot. Western blot shows lysates of NK-92 human natural killer lymphoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human KLRG1 Monoclonal Antibody (Catalog # MAB70291) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for KLRG1 at approximately 26 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

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 known as 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.

Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449