**Human KLRG1 Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 697213

Catalog Number: MAB70291

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**DESCRIPTION**

Species Reactivity: Human

Specificity: Detects human KLRG1 in direct ELISAs and Western blots.

Source: Monoclonal Mouse IgG<sub>2B</sub> 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.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>2 μg/mL See Below</td>
</tr>
</tbody>
</table>

**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.

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