SANTA CRUZ BIOTECHNOLOGY, INC.

KLRG1 (H-85): sc-22828



BACKGROUND

Killer cell lectin-like receptor G1 (KLRG1) is expressed as a homodimer, composed of glycosylated 30-38 kDa subunits, on natural killer (NK) cells and activated CD8 T cells. KLRG1 expression is tightly regulated and is induced through different molecular mechanisms in varying subsets of immune-responsive cells. Induction of the receptor leads to inhibition of NK cell-mediated cytotoxicity and cytokine production, indicating a role for KLRG1 in the termination of NK cell activation. A rat homologue of KLRG1, designated mast cell function-associated antigen (MafA), was originally islolated from the RBL-2H3 cell line. MafA is expressed in rat mast cells and basophils.

REFERENCES

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- Robbins, S.H., Nguyen, K.B., Takahashi, N., Mikayama, T., Biron, C.A. and Brossay, L. 2002. Cutting edge: inhibitory functions of the killer cell lectin-like receptor G1 molecule during the activation of mouse NK cells. J. Immunol. 168: 2585-2589.
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CHROMOSOMAL LOCATION

Genetic locus: KLRG1 (human) mapping to 12p13.31.

SOURCE

KLRG1 (H-85) is a rabbit polyclonal antibody raised against amino acids 1-85 of KLRG1 of human origin.

PRODUCT

Each vial contains 200 μ g lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

KLRG1 (H-85) is recommended for detection of KLRG1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for KLRG1 siRNA (h): sc-42937, KLRG1 shRNA Plasmid (h): sc-42937-SH and KLRG1 shRNA (h) Lentiviral Particles: sc-42937-V.

Molecular Weight of KLRG1: 30-38 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA





KLRG1 (H-85): sc-22828. Western blot analysis of human recombinant KLRG1 fusion protein.

KLRG1 (H-85): sc-22828. Immunofluorescence staining of methanol-fixed Jurkat cells showing membrane localization.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.