SANTA CRUZ BIOTECHNOLOGY, INC.

KLRG1 (h): 293T Lysate: sc-171334

BACKGROUND

Killer cell lectin-like receptor G_1 (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

1. Corral, L., Hanke, T., Vance, R.E., Cado, D. and Raulet, D.H. 2000. NK cell expression of the killer cell lectin-like receptor G_1 (KLRG1), the mouse homolog of MAFA, is modulated by MHC class I molecules. Eur. J. Immunol. 30: 920-930.
2. Voehringer, D., Kaufmann, M. and Pircher, H. 2001. Genomic structure, alternative splicing, and physical mapping of the killer cell lectin-like receptor G_1 gene (KLRG1), the mouse homologue of MAFA. Immunogenetics 52: 206-211.
3. 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 G_1 molecule during the activation of mouse NK cells. J. Immunol. 168: 2585-2589.
4. Abramson, J. and Pecht, I. 2002. Clustering the mast cell function-associated antigen (MAFA) leads to tyrosine phosphorylation of p62Dok and SHIP and affects RBL-2H3 cell cycle. Immunol. Lett. 82: 23-28.
5. Robbins, S.H., Terrizzi, S.C., Sydora, B.C., Mikayama, T. and Brossay, L. 2003. Differential regulation of killer cell lectin-like receptor G_1 expression on T cells. J. Immunol. 170: 5876-5885.

CHROMOSOMAL LOCATION

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

PRODUCT

KLRG1 (h): 293T Lysate represents a lysate of human KLRG1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

KLRG1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive KLRG1 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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