

Monoclonal Antibody to KLRG1 - FITC

Alternate names:	C-type lectin domain family 15 member A, CLEC15A, ITIM-containing receptor MAFA-L, KLRG1, Killer cell lectin-like receptor subfamily G member 1, MAFA, MAFA-like receptor, MAFAL, Mast cell function-associated antigen
Catalog No.:	AM08067FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	Killer cell lectin-like receptor G1 (KLRG1; formerly known as mouse MAFA or 2F1 Ag), a homodimeric member of the lectin-like type 2 transmembrane receptor family that contain characteristic immunoreceptor tyrosine-based inhibitory motifs (ITIMs) in their cytoplasmic domains. (Ref.1,2) These ITIMs interact with the SH2 domains of protein phosphatases such as SHP1. (Ref.3,4) Cell surface expression of KLRG1 is up-regulated by expression of MHC class I molecules. The effect of MHC class I expression is indirect, and can be mediated by interactions with class I-specific Ly49 inhibitory receptors. (Ref.1)
Uniprot ID:	O88713
NCBI:	NP_058666.1
GeneID:	50928
Host / Isotype:	Hamster / IgG
Clone:	2F1
Immunogen:	Activated NK (A-LAK) cells from B6 (H-2b) mice. (Ref.1)
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: < / = 1 µg/10e6 cells. (Ref.1,5) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with Killer Cell Lectin-like Receptor G1 (KLRG1 formerly known as mouse MAFA or 2F1-Ag). It stains 30-60% of NK1.1+CD3- splenocytes, and a small fraction of T cells in all mouse strains tested (C57BL/6, BALB/c, 129/J, C3H.SW, AKR/J, SJL). (Ref.1,5) Species: Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
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- General Readings:**
1. Corral, L., T. Hanke, R.E. Vance, D. Cado, and D.H. Raulet. 2000. Eur. J. Immunol. 30:920.
 2. Hanke, T., L. Corral, R.E., Vance, and D.H. Raulet. 1998. 28:4409.
 3. Burshtyn, D., A. Scharenberg, N. Wagtmann, S. Rajagopalan, M. Peruzzi, J.-P. Kinet, and E.O. Long. 1997. Immunity 4:77.
 4. Nakamura, M.C., E.C. Niemi, M.J. Fisher, L.D. Schultz, W.E. Seaman, and J.C. Ryan. 1997. J. Exp. Med. 185:673.
 5. Liu, S., and D.H. Raulet. Personal communication.

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