

Product datasheet for **AM08067BT-N**

Klrg1 Hamster Monoclonal Antibody [Clone ID: 2F1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2F1
Applications:	FC
Recommended Dilution:	Flow Cytometry: $< / = 1 \mu\text{g}/10\text{e}6$ cells. (Ref.1,5)
Reactivity:	Mouse
Host:	Hamster
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Activated NK (A-LAK) cells from B6 (H-2b) mice. (Ref.1)
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)
Formulation:	PBS containing 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Biotin
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	killer cell lectin-like receptor subfamily G, member 1
Database Link:	Entrez Gene 50928 Mouse O88713



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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)

Synonyms:

KLRG1, CLEC15A, MAFA, MAFAL, Mast cell function-associated antigen, MAFA-like receptor, ITIM-containing receptor MAFA-L