

Monoclonal Antibody to CD305 / LAIR1 - FITC

Alternate names:	LAIR-1, Leukocyte-associated immunoglobulin-like receptor 1, hLAIR1
Catalog No.:	SM2048F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	LAIR-1 is a 40kD cell surface molecule that functions as an inhibitory receptor on natural killer cells, monocytes and T cells. LAIR-1, otherwise known as CD305, is also expressed by other haematopoietic cells including B cells, but is not expressed by nonhaematopoietic, platelets or erythrocytes.
Uniprot ID:	Q6GTX8
NCBI:	NP_002278.1
GeneID:	3903
Host / Isotype:	Mouse / IgG1
Clone:	NKTA255
Immunogen:	NK cells lines B12.100 and AM.25. Remarks: Spleen cells from immunised mice were fused with cells of the P3U1 myeloma cell line.
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% BSA Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes leukocyte-associated Ig-like receptor-1 (LAIR-1). Clone NKTA255 is reported to inhibit NK cell triggering via CD16 molecules. We recommend the use of SM2048A for this purpose. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General References:	1. Poggi, A. et al. (1995) p40, a novel surface molecule involved in the regulation of the non-major histocompatibility complex-restricted cytolytic activity in humans. Eur. J. Immunol. 25: 369-376.

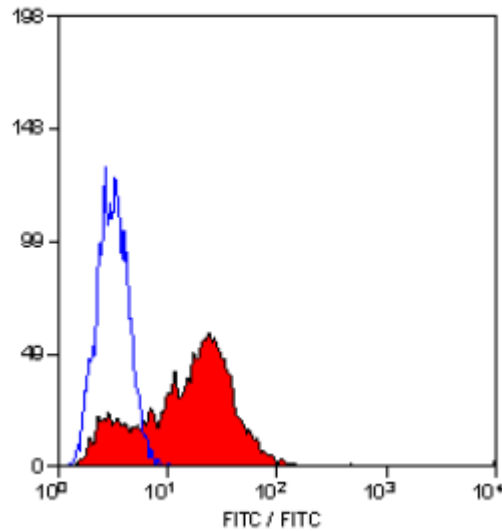
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Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
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2. Zocchi, M. R. et al. (2001) Leukocyte-associated Ig-like receptor-1 prevents granulocyte-monocyte colony stimulating factor dependent proliferation and Akt1/PKB alpha activation in primary acute myeloid leukemia cells. *Eur. J. Immunol.* 31: 3667-3675.
3. Poggi, A. et al. (2000) Engagement of the leukocyte-associated Ig-like receptor-1 induces programmed cell death and prevents nuclear translocation in human myeloid leukemias. *Eur. J. Immunol.* 30: 2751-2758.

Pictures:



Staining of Human peripheral blood lymphocytes with Mouse Anti Human CD305 antibody FITC conjugated (SM2048F).

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