

Product datasheet for **AM32991AF-N**

CD161 (KLRB1) Mouse Monoclonal Antibody [Clone ID: B-D51]

Product data:

Product Type:	Primary Antibodies
Clone Name:	B-D51
Applications:	FC
Recommended Dilution:	Flow Cytometry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human KLRB1. Myeloma X63/AG.8653 x Balb/c spleen cells.
Specificity:	This Monoclonal antibody recognises CD161.
Formulation:	PBS without carriers and preservatives State: Azide Free State: Liquid purified (0.2 µm sterile filtered) IgG fraction Preservative: None
Concentration:	lot specific
Purification:	Ion Exchange Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	killer cell lectin like receptor B1
Database Link:	Entrez Gene 3820 Human Q12918



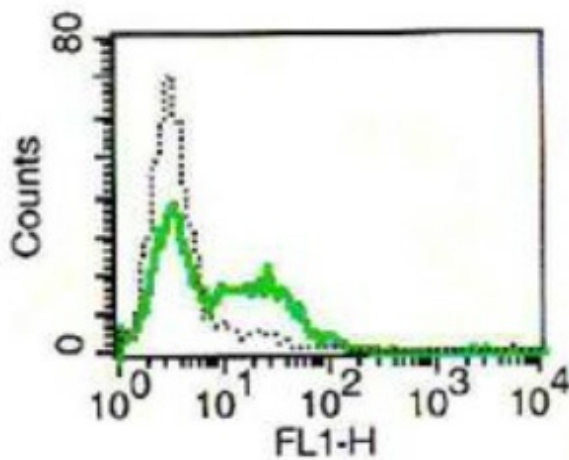
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Background:

CD161 is a C-Type Lectin Receptor, also known as NKR-P1A, previously found on NKT cells and subsets of T-cells(1). Phenotyping of cells that are functionally producing IL-17 has shown the one constant marker is CD161. While it had been shown previously that human CD4+ cells that produce both IL-17 and IFN γ give rise to Th17/Th1 cells, indicating common etiology of these two T cell subsets (2-4), a clear marker for cells producing IL-17 is CD161. In fact, all cells characterized as the following subsets CD4+TCRab+, CD8+TCRab+, CD4-CD8-TCRab+, and CD4-CD8-TCRgd+ bearing CD161 also produce IL-17 but cells of these same phenotypes and functional marker which do not bear CD161 also do not produce IL-17(7). Induction of CD161 expression by transduction with RORC also induces IL-1R and IL-23R as well as the ability to produce IL-17(4). The ability to produce IL-17 and the induction of CD161 shows a strong dependency for RORC(4). Antibody to CD161 provides a probe for identifying IL-17 producing cells and offers a finer delineation of additional subsets derived from Th17 and their functional characteristics through cytokine mRNA expression or production.

Synonyms:

HNKR-P1a, CLEC5B, NKRP1A

Product images:

A typical staining pattern of lymphocytes with the B-D51 monoclonal antibody