

# Product datasheet

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# ARG65381 anti-CD19 antibody [1D3] (PE)

Package: 100 μg Store at: 4°C

#### **Summary**

Product Description PE-conjugated Rat Monoclonal antibody [1D3] recognizes CD19

Tested Reactivity Ms
Tested Application FACS

Specificity The rat monoclonal antibody 1D3 detects mouse CD19, 95 kDa type I transmembrane glycoprotein

(immunoglobulin superfamily) expressed on B lymphocytes and follicular dendritic cells; it is lost on

plasma cells.

Host Rat

Clonality Monoclonal

Clone 1D3

Isotype IgG2a
Target Name CD19

Species Mouse

Immunogen Mouse CD19-transfected cell line.

Conjugation PE

Alternate Names Differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte antigen CD19; B-lymphocyte

surface antigen B4; B4; CD antigen CD19; CVID3

#### **Application Instructions**

Application table	Application	Dilution
	FACS	1 - 5 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

#### **Properties**

Form Liquid

Purification Note The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The

conjugate is purified by size-exclusion chromatography.

Buffer PBS (pH 7.4) and 15 mM Sodium azide

Preservative 15 mM Sodium azide

Concentration 0.5 mg/ml

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

#### Bioinformation

Database links <u>GeneID: 12478 Mouse</u>

Swiss-port # P25918 Mouse

Gene Symbol Cd19

Gene Full Name CD19 antigen

Background CD19: Lymphocytes proliferate and differentiate in response to various concentrations of different

antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for

antigen receptor-dependent stimulation. [provided by RefSeq, Jul 2008]

Function CD19 functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes.

Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed:2463100, PubMed:1373518, PubMed:16672701). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of

intracellular Ca(2+) stores (PubMed:9382888, PubMed:9317126, PubMed:12387743,

PubMed:16672701). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:9317126). Required for normal differentiation of B-1 cells. Required for normal B cell

differentiation and proliferation in response to antigen challenges (PubMed:2463100,

PubMed:1373518). Required for normal levels of serum immunoglobulins, and for production of high-

affinity antibodies in response to antigen challenge (PubMed:9317126, PubMed:12387743,

PubMed:16672701). [UniProt]

Highlight Related products:

CD19 antibodies; CD19 ELISA Kits; CD19 Duos / Panels; Anti-Rat Rat secondary antibodies;

Related news:

Tumor-Infiltrating Lymphocytes (TILs)

Research Area Developmental Biology antibody; Immune System antibody; Lymphocyte Marker antibody; B cell

Marker antibody; Pro-B Cell Marker antibody; Pre-B Cell Marker antibody; Immature B Cell Marker

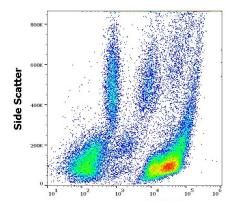
antibody; Follicular dendritic cells antibody

Calculated Mw 61 kDa

PTM Phosphorylated on serine and threonine upon DNA damage, probably by ATM or ATR. Phosphorylated

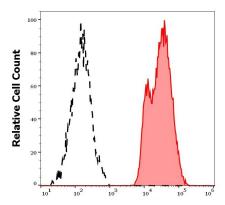
on tyrosine following B-cell activation. Phosphorylated on tyrosine residues by LYN.

### **Images**



#### ARG65381 anti-CD19 antibody [1D3] (PE) FACS image

Flow Cytometry: Murine peritoneal fluid cells stained with ARG65381 anti-CD19 antibody [1D3] (PE) at 1  $\mu g/ml$  dilution.



## ARG65381 anti-CD19 antibody [1D3] (PE) FACS image

Flow Cytometry: Separation of murine CD19 positive lymphocytes (red-filled) from CD19 negative lymphocytes (black-dashed). Murine peritoneal fluid cells stained with ARG65381 anti-CD19 antibody [1D3] (PE) at 1  $\mu$ g/ml dilution.