

Product datasheet

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ARG65380 anti-CD19 antibody [1D3] (low endotoxin)

Package: 100 μg Store at: -20°C

Summary

Product Description Azide free and low endotoxin Rat Monoclonal antibody [1D3] recognizes CD19

Tested Reactivity Ms

Tested Application FACS, FuncSt, IHC-Fr, IP

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 Un-conjugated

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 - 4 μg/ml
	FuncSt	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
Application Note	Functional studies: This antibody can induce down-regulation of CD19, affecting the proportions of B cell subpopulations. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Purification Note	$0.2~\mu m$ filter sterilized. Endotoxin level is less than $0.01~EU/\mu g$ of the protein, as determined by the LAL test.

Purity > 95% (by SDS-PAGE)

Buffer PBS (pH 7.4)

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

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

before use.

Note For laboratory research only, not for drug, diagnostic or other 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

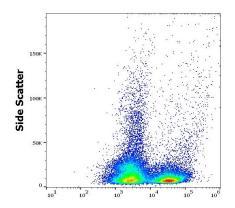
Marker antibody; Pro-B Cell Marker antibody; Pre-B Cell Marker antibody; Immature B Cell Marker

antibody; Follicular dendritic cells antibody

Calculated Mw 61 kDa

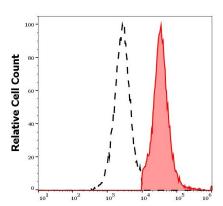
PTM Phosphorylated on serine and threonine upon DNA damage, probably by ATM or ATR. Phosphorylated

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



ARG65380 anti-CD19 antibody [1D3] (low endotoxin) FACS image

Flow Cytometry: Murine splenocyte suspension stained with ARG65380 anti-CD19 antibody [1D3] (low endotoxin) at 0.6 μ g/ml dilution, followed by APC-conjugated Donkey anti-Rat antibody.



ARG65380 anti-CD19 antibody [1D3] (low endotoxin) FACS image

Flow Cytometry: Separation of murine CD19 positive splenocytes (red-filled) from CD19 negative splenocytes (black-dashed). Murine splenocyte suspension stained with ARG65380 anti-CD19 antibody [1D3] (low endotoxin) at 0.6 $\mu g/ml$ dilution, followed by APC-conjugated Donkey anti-Rat antibody.