

ARG55048 anti-CD19 antibody [1D3]

Package: 100 μg Store at: -20°C

Summary

| Product Description | Rat Monoclonal antibody [1D3] recognizes CD19 |
|---------------------|--|
| Tested Reactivity | Ms |
| Tested Application | FACS, FuncSt, IHC-P, IP |
| Specificity | This antibody 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-P | Assay-dependent |
| | IP | Assay-dependent |
| Application Note | This antibody can induce down | -regulation of CD19, affecting the proportions of B cell subpopulations. |

Properties

| - | |
|---------------------|---|
| Form | Liquid |
| Purification | Purification with Protein G. |
| Buffer | PBS (pH 7.4) and 15 mM Sodium azide |
| Preservative | 15 mM Sodium azide |
| 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 |
| | |

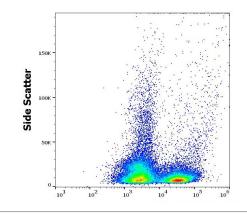
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

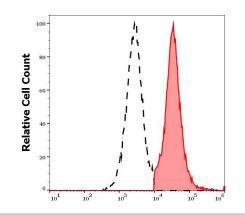
Bioinformation

| Database links | GeneID: 12478 Mouse |
|----------------|--|
| | 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: <u>CD19 antibodies;</u> <u>CD19 ELISA Kits;</u> <u>CD19 Duos / Panels;</u> <u>Anti-Rat IgG secondary antibodies;</u> Related news: <u>Tumor-Infiltrating Lymphocytes (TILs)</u> |
| 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 |
| РТМ | 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. |



ARG55048 anti-CD19 antibody [1D3] FACS image

Flow Cytometry: Murine splenocyte suspension stained with ARG55048 anti-CD19 antibody [1D3] at 0.6 μ g/ml dilution, followed by APC-conjugated Donkey anti-Rat antibody.



ARG55048 anti-CD19 antibody [1D3] FACS image

Flow Cytometry: Separation of murine CD19 positive splenocytes (red-filled) from CD19 negative splenocytes (black-dashed). Murine splenocyte suspension stained with ARG55048 anti-CD19 antibody [1D3] at 0.6 μ g/ml dilution, followed by APC-conjugated Donkey anti-Rat antibody.