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Datasheet for 200-502-M72

CD19 Fluorescein Antibody

Overview

Description:	Anti-CD19 (RAT) Monoclonal Antibody Fluorescein Conjugated - 200-502-M72
Item No.:	200-502-M72
Size:	100 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Rat

Product Details

Background:	CD19 is a member of the immunoglobulin superfamily with 556 amino acid and two immunoglobulin-like C2-type domains. As a cell surface protein, CD19 is known to form a complex with CD21, CD81 and CD225 in the membrane of mature B cells. A major function of CD100 is to assemble with the antigen receptor of B lymphocytes so as to decrease the threshold for antigen receptor dependent stimulation thus enhancing the specificity and sensitivity of B cells towards antigens. Thus CD19 is an important protein for B cell antigen receptor signaling and regulation and also acts as a specialized adaptor protein for the amplification of Src family needed for this purpose. Regulation of growth of B cells is a major function of CD19 and its expression is confined to only B lymphocytes and follicular dendritic cells of the hematopoietic system. Increased expression of CD19 induces the production of auto-antibody thus giving an insight to the regulatory role of CD19 in autoimmunity. Defects in CD19 are a cause of hypogammaglobulinemia.
Synonyms:	B-lymphocyte antigen CD19, Differentiation antigen CD19, CD19
Host Species:	Rat
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	1D3
Format:	IgG2a
F/P Ratio:	2-8

Target Details

Gene Name:	Cd19
Reactivity:	Mouse
Immunogen Type:	Other
Immunogen:	Anti-CD19 Antibody (Monoclonal) was produced by repeated immunizations with mouse CD19 transfected cell line.
Purity/Specificity:	Fluorescein conjugated CD19 Monoclonal Antibody was Protein G Purified and is directed against mouse CD19. Reactivity is observed against mouse CD19. Cross reactivity with CD19 from other sources has not been tested.
Relevant Links:	• UniProtKB - P25918 • NCBI - NP_033974.2 • GeneID - 12478

Application Details

Tested Applications:	FC
Application Note:	Anti-CD19 is tested for Flow Cytometry (Cell Surface). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	0.25-1µg/10^6 cells

Formulation

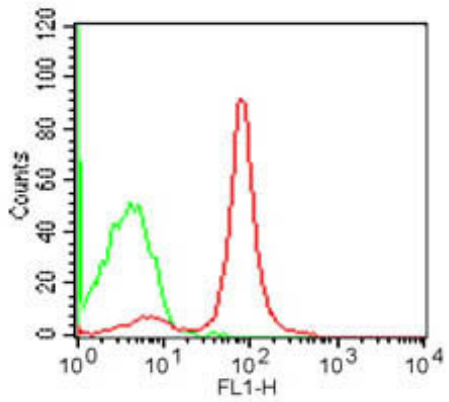
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. This product is light sensitive.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Cell Surface Flow Cytometry of Rat anti-MOUSE CD19 antibody Fluorescein conjugated. Cells: BALB/c mouse splenocytes. Stimulation: none. Antibody: (GREEN) isotype control antibody; (RED) Fluorescein Anti-CD19 rat secondary antibody using 1 µg.

Disclaimer

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