

Datasheet for ABIN6657888
anti-CD19 antibody (PE)



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3 Images

Overview

Quantity:	25 µg
Target:	CD19
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD19 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	CD19 Phycoerythrin Antibody
Immunogen:	Anti-CD19 Antibody (Monoclonal) was produced by repeated immunizations with mouse CD19 transfected cell line.
Clone:	1D3
Isotype:	IgG2a kappa
Cross-Reactivity (Details):	Reactivity is observed against mouse CD19.
Purification:	Phycoerythrin conjugated CD19 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against mouse CD19.
Sterility:	Sterile filtered
Labeling Ratio:	1-2

Target Details

Target:	CD19
Alternative Name:	CD19 (CD19 Products)
Background:	<p>Synonyms: B-lymphocyte antigen CD19, Differentiation antigen CD19, CD19</p> <p>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.</p> <p>Gene Name: Cd19</p>
Gene ID:	12478
NCBI Accession:	NP_033974
UniProt:	P25918
Pathways:	Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Application Notes:	Optional[Neutralization_Dilution]: 0.25-1 µg/10 ⁶ cells
Comment:	Anti-CD19 is tested for Flow Cytometry (Cell Surface). Researchers should determine optimal titers for applications that are not stated.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.1 % Gelatin

Handling

Preservative: 0.09 % (w/v) Sodium Azide

Preservative: Sodium azide

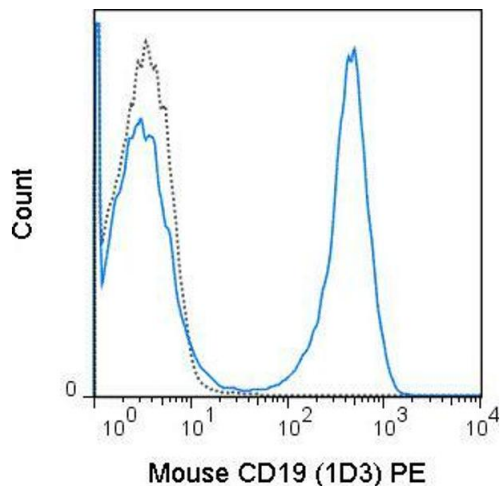
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.

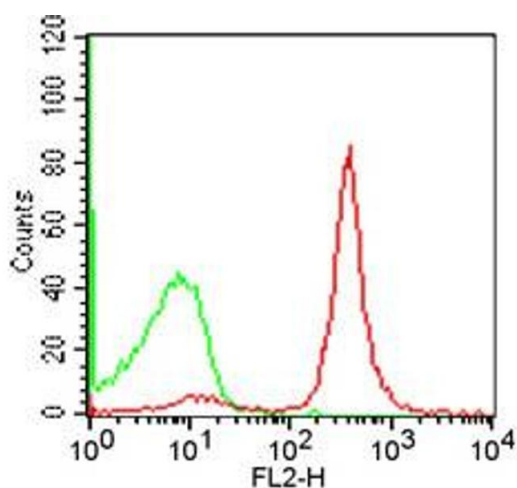
Expiry Date: 6 months

Images



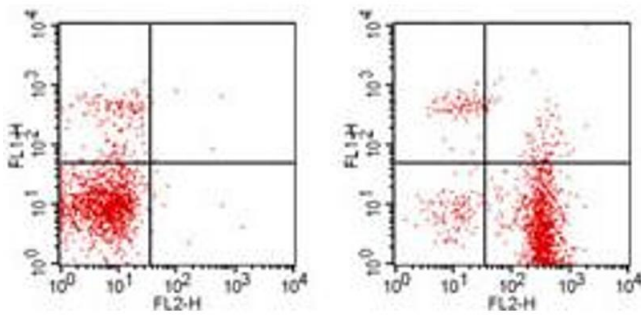
Flow Cytometry

Image 1. Flow Cytometry of Rat anti-MOUSE CD19 antibody Phycoerythrin conjugated. Cells: C57CL/6 mouse splenocytes. Stimulation: none. Antibody: (GRAY) PE RAT IgG2a isotype control antibody; (BLUE) Phycoerythrin Anti-CD19 rat secondary antibody using 0.125 µg.



Flow Cytometry

Image 2. Flow Cytometry - Rat anti-MOUSE CD19 PE Cell Surface Flow Cytometry of Rat anti-MOUSE CD19 antibody Phycoerythrin conjugated. Cells: BALB/c mouse splenocytes. Stimulation: none. Antibody: (GREEN) isotype control antibody; (RED) Phycoerythrin Anti-CD19 rat secondary antibody using 1 µg.



Flow Cytometry

Image 3. Flow Cytometry - Rat anti-MOUSE CD19 PE Cell Surface Flow Cytometry of Rat anti-MOUSE CD19 antibody Phycoerythrin conjugated. Cells: BALB/c mouse splenocytes. Stimulation: none. Antibody: (left) isotype control antibody; (right) Phycoerythrin Anti-CD19 rat secondary antibody using 1 µg. Also stained with Anti-CD4 Fluorescein Conjugated Antibody.