Anti-Mouse CD19 (1D3)

Catalog Number:65290-1-Ig

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number: 65290-1-Ig	**GenBank Accession Number:** BC156767	**Purification Method:** Affinity purification
Concentration: 100ug, 0.5 mg/ml	**GeneID (NCBI):** 12478	**CloneNo.:** 1D3
Source: Rat	**Full Name:** CD19 antigen	**Recommended Dilutions:** IF-Fro: 1:200-1:800 FC: 0.5 ug per 10^6 cells in 100 μl suspension
Isotype: IgG2a, kappa		

Applications

Tested Applications:
IF-Fro, FC

Species Specificity:
mouse

Positive Controls:

IF-Fro : mouse spleen tissue,

FC : mouse splenocytes,

Background Information

CD19 is a 95 kDa type I transmembrane glycoprotein belonging to the immunoglobulin superfamily (PMID: 2472450). It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during subsequent stages of differentiation until finally down-regulated during terminal differentiation into plasma cells (PMID: 8528044). CD19 is involved in B cell development, activation and differentiation. It is the dominant component for the signaling complex on B cells that includes CD21 (CR2), CD81 (TAPA-1) and CD225 and acts as a critical co-receptor for BCR signal transduction (PMID: 23210908).
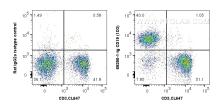
Storage

Storage:
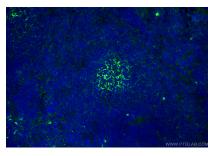Store at 2-8℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

Selected Validation Data

1X10^6 C57BL/6 mouse splenocytes were surface co-stained with CoraLite® Plus 647 Anti-Mouse CD3 (17A2) and 0.5 ug Anti-Mouse CD19 (65290-1-Ig, Clone:1D3) or 0.5 ug Rat IgG2a Isotype Control (2A3), and FITC anti-rat IgG2a Antibody at dilution 1:100. Cells were not fixed.

Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse spleen tissue using CD19 antibody (65290-1-Ig, Clone: 1D3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).