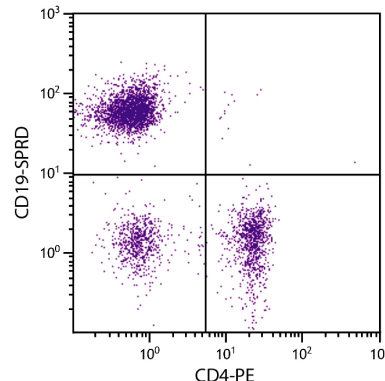




## Rat Anti-Mouse CD19

Cat. No.	Format	Size
1575-01	Purified (UNLB)	0.5 mg
1575-02	Fluorescein (FITC)	0.5 mg
1575-02S	Fluorescein (FITC)	0.1 mg
1575-08	Biotin (BIOT)	0.5 mg
1575-09	R-phycoerythrin (PE)	0.1 mg
1575-09L	R-phycoerythrin (PE)	0.2 mg
1575-11	Allophycocyanin (APC)	0.1 mg
1575-13	Spectral Red® (SPRD)	0.1 mg
1575-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1575-15	Cyanine 5 (CY5)	0.1 mg
1575-16	R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)	0.1 mg
1575-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
1575-26	Pacific Blue™ (PACBLU)	0.1 mg
1575-27	Alexa Fluor® 700 (AF700)	0.1 mg
1575-30	Alexa Fluor® 488 (AF488)	0.1 mg
1575-31	Alexa Fluor® 647 (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD19-SPRD (SB Cat. No. 1575-13) and Rat Anti-Mouse CD4-PE (SB Cat. No. 1540-09).

## Overview

<b>Clone</b>	6D5
<b>Isotype</b>	Rat (Lewis) IgG <sub>2aκ</sub>
<b>Immunogen</b>	Mouse CD19-expressing K562 human erythroleukemia cells
<b>Specificity</b>	Mouse CD19; Mr 95 kDa
<b>Alternate Name(s)</b>	B4

## Description

CD19 is a monomeric transmembrane glycoprotein expressed at relatively constant levels throughout B cell development from early pro-B/pre-B cells (i.e. B220<sup>+</sup>/CD43<sup>+</sup>/HSA<sup>+</sup>) through fully differentiated B cell stages. Terminally differentiated plasma cells do not express CD19. In humans, the CD19 molecule on the surface of mature B cells associates with CD21 (CR-2) and CD81 (TAPA-1), and this multimolecular complex synergizes with surface immunoglobulin to provide signal transduction and promote cellular activation. All splenic and peritoneal IgM<sup>+</sup> cells of both B-1 and B-2 lineages are CD19<sup>+</sup>, with B-1 cells expressing higher levels of CD19 than B-2 cells in these sites. Studies with CD19-deficient mice have suggested that this molecule may not be required for normal generation and maturation of B cells in the bone marrow. The monoclonal antibody 6D5 recognizes the same epitope as the published clone, 1D3.

## Applications

FC – Quality tested <sup>5-11</sup>  
 IHC-FS – Reported in literature <sup>2,3</sup>  
 IP <sup>12</sup>  
 Sep – Reported in literature <sup>4</sup>

## Working Dilutions

<b>Flow Cytometry</b>	FITC, BIOT and AF488 conjugates	≤ 1 µg/10 <sup>6</sup> cells
	PE, APC, SPRD, CY5, PE/CY5.5 and PE/CY7 conjugates	≤ 0.2 µg/10 <sup>6</sup> cells
	PACBLU conjugate	≤ 0.3 µg/10 <sup>6</sup> cells
	AF647 and AF700 conjugates	≤ 0.1 µg/10 <sup>6</sup> cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	

<b>Other Applications</b>	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.
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**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

## Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC), Spectral Red® (SPRD), R-phycoerythrin-Cyanine 7 (PE/CY7) and R-phycoerythrin-Cyanine 5.5 (PE/CY5.5) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The Cyanine 5 (CY5) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 700 (AF700) and Pacific Blue™ (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

## References

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12. Personal communication (IP)

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