

# SouthernBiotech

# Mouse Anti-Human CD19

Cat. No.	<u>Form</u>	Quantity
9340-01	Purified (UNLB) Antibody	0.1 mg
9340-02	Fluorescein (FITC) Conjugate	100 tests
9340-08	Biotin (BIOT) Conjugate	100 tests
9340-09	R-phycoerythrin (R-PE) Conjugate	100 tests
9340-10	R-phycoerythrin-Texas Red <sup>®</sup> (R-PE-TXRD) Conjugate	100 tests
9340-11	Allophycocyanin (APC) Conjugate	100 tests
9340-13	*Spectral Red™ (SPRD) Conjugate	100 tests
9340-14	Low Endotoxin, Azide-Free (LE/AF)	0.1 mg
9340-15	**Cyanine 5 (CY™5) Conjugate	100 tests
9340-16	**R-phycoerythrin-Cyanine 5.5 (R-PE-CY™5.5) Conjugate	100 tests
9340-17	**R-phycoerythrin-Cyanine 7 (R-PE-CY™7) Conjugate	100 tests
9340-18	** Allophycocyanin - Cyanine 5.5 (APC- CY™5.5) Conjugate	100 tests
9340-19	** Allophycocyanin -Cyanine 7 (APC-CY™7) Conjugate	100 tests

### DESCRIPTION

Clone	SJ25-C1
lg Isotype	Mouse IgG₁
Specificity	Human CD19

CD19 is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily. It is expressed at all stages of B cell differentiation except terminally differentiated plasma cells. It is also present on the cell surface of follicular dendritic cells. CD19 associates with CD21, CD81, Leu 13 and/or MHC Class II molecules to form a signal transduction complex on the B cell surface. This signaling complex modulates the activation threshold for the B cell antigen receptor (BCR).<sup>1-5</sup>

#### **RESEARCH APPLICATIONS**

- Flow cytometry
- Immunohistochemistry (frozen sections)
- Immunoprecipitation

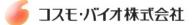
### CHARACTERIZATION

To insure lot to lot consistency, each batch of product is tested by flow cytometry to conform to the characteristics of a standard reference reagent.

## WORKING DILUTIONS

Flow Cytometry:	Purified antibody	$\leq$ 1 $\mu$ g/10 <sup>6</sup> cells
	Fluorescein conjugate	$10 \ \mu L/10^6$ cells
	Biotin conjugate	10 μL/10 <sup>6</sup> cells
	R-phycoerythrin conjugate	$10 \ \mu L/10^6$ cells
	R-phycoerythrin conjugate-Texas Red <sup>®</sup>	$10 \ \mu L/10^6$ cells
	Allophycocyanin conjugate	$10 \ \mu L/10^6$ cells
	Spectral Red™ conjugate	$10 \ \mu L/10^6$ cells
	Cyanine 5 conjugate	$10 \ \mu L/10^6$ cells
	R-phycoerythrin-Cyanine 5.5 conjugate	$10 \mu\text{L}/10^6$ cells
	R-phycoerythrin-Cyanine 7 conjugate	$10 \ \mu L/10^6$ cells
	Allophycocyanin -Cyanine 5.5 conjugate	$10 \ \mu L/10^6$ cells
	Allophycocyanin -Cyanine 7 conjugate	$10 \ \mu L/10^6$ cells
Other Applications:	Since applications vary, you should determine the optimum working dilution of the product that is appropriate for your specific need.	

### For Research Use Only. Not for Diagnostic or Therapeutic Use.



#### HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) and Cyanine 5 (CY™5) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (R-PE) and Allophycocyanin (APC) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red<sup>™</sup> (SPRD), R-phycoerythrin -Texas Red<sup>®</sup> (R-PE-TXRD), R-phycoerythrin-Cyanine 5.5 (R-PE-CY<sup>™</sup>5.5), R-phycoerythrin-Cyanine 7 (R-PE-CY<sup>™</sup>7), Allophycocyanin -Cyanine 5.5 (APC-CY<sup>™</sup>5.5) and Allophycocyanin -Cyanine 7 (APC-CY<sup>™</sup>7)conjugates are supplied as 100 tests 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 0.2 mL of PBS. Aliquot and store at or below -20°C.
- Protect conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

#### WARNING

Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

#### REFERENCES

- McMichael, A.K., P.C.L. Beverly, S. Cobbold, M.J. Crumpton, W. Gilks, F.M. Gotch, N. Hogg, M. Horton, N. Ling, I.C.M. MacLennan, D.Y. Mason, C. Milstein, D. Spiegelhalter, and H. Waldmann, eds. 1987. *Leukocyte Typing III: White Cell Differentiation Antigens*, Oxford University Press, Oxford.
- 2. Barclay, A.N., M.H. Brown, S.K.A. Law, A.J. McKnight, M.G. Tomlinson, and P.A. van der Merwe, eds. 1997. *The Leukocyte Antigens Facts Book, 2nd Edition*, CD19 Section, Academic Press, New York, p. 179.
- 3. Tedder, T.F., L.J. Zhou, and P. Engel. 1994. Immunol. Today 14:437.
- 4. Fearon, D.T., and R.H. Carter. 1995. Annu. Rev. Immunol. 13:127.
- 5. Doody, G.M., P.W. Dempsey, and D.T. Fearson. 1996. Curr. Opin. Immunol. 8:378.

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