SouthernBiotech

Mouse Anti-Human CD14

Cat. No.	Form	Quantity
9561-01	Purified (UNLB) Antibody	0.1 mg
9561-02	Fluorescein (FITC) Conjugate	100 tests
9561-08	Biotin (BIOT) Conjugate	100 tests
9561-09	R-phycoerythrin (R-PE) Conjugate	100 tests
9561-11	Allophycocyanin (APC) Conjugate	100 tests
9561-13	*Spectral Red ™ (SPRD) Conjugate	100 tests
9561-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
9561-16	**R-phycoerythrin-Cyanine 5.5 (R-PE-CY™5.5) Conjugate	100 tests
9561-17	**R-phycoerythrin-Cyanine 7 (R-PE-CY™7) Conjugate	100 tests
9561-18	** Allophycocyanin -Cyanine 5.5 (APC-CY™5.5) Conjugate	100 tests
9561-19	** Allophycocyanin -Cyanine 7 (APC-CY™7) Conjugate	100 tests
9561-30	**Alexa Fluor 488 (AF488) Conjugate	100 tests
9561-31	**Alexa Fluor 647 (AF647) Conjugate	100 tests

DESCRIPTION

Clone 61D3
Ig Isotype Mouse IgG_1
Specificity Human CD14

CD14 is a 53-55 kDa glycosphosphatidylinositol (GPI)-anchored single chain glycoprotein. It is expressed on monocytes, macrophages, dendritic cells and Langerhans cells. It is also weakly expressed on neutrophils. CD14 appears to be involved in clearance of gram-negative bacteria via its high affinity binding to LPS-LPB complexes.[1-4]

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 characteristics of a standard reference reagent.

WORKING DILUTIONS

Flow Cytometry:	Purified antibody	≤ 1 μg/10^6 cells
	Fluorescein conjugate	10 μL/10^6 cells
	R-phycoerythrin conjugate	10 μL/10^6 cells
	Allophycocyanin conjugate	10 μL/10^6 cells
	Spectral Red™ conjugate	10 μL/10^6 cells
	PE/CY5.5 and PE/CY7 conjugates	10 μL/10^6 cells
	APC/CY5.5 and APC/CY7 conjugates	10 μL/10^6 cells
	AF488 and AF647 conjugates	10 μL/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.

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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 8.2. *No preservatives or amine-containing buffer salts added*. Store at 2-8°C.
- The fluorescein (FITC), Alexa Fluor 488 (AF488), and Alexa Fluor 647 (AF647) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL PBS/NaN_3. Store at 2-8°C.
- The R-PE conjugate and allophycocyanin conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN_3 and a stabilizing agent; store at 2-8°C.
- The low endotoxin/azide-free antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS; aliquot and freeze upon receipt.
- The Spectral Red™ (SPRD), R-phycoerythrin-Cyanine 5.5 (R-PE-CY™5.5), R-phycoerythrin-Cyanine 7 (R-PE-CY™7), Allophycocyanin-Cyanine 5.5 (APC-CY™5.5), and Allophycocyanin-Cyanine 7 (APC-CY™7) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN_3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- 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

1. Knapp, W., B. Dorken, W.R. GIlks, E.P. Rieber, R.E. Schmidt, H. Stein, A.E.G.K. Von dem Borne, eds. 1989. *Leukocyte Typing IV: 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*, CD14 Section, Academic Press, New York, p. 169.
3. Hogg, N., S. MacDonald, M. Slusarenko, and P.C. Beverley. 1984. *Immunol*. 53:753.
4. Stocks, S.C., M. Albrechtsen, and M.A. Kerr. 1990. *Biochem. J*. 268:275.