

SouthernBiotech



Mouse Anti-Human CD95 (Fas/Apo-1)

Cat. No.	Form	Quantity
9730-01	Purified (UNLB)) Antibody	0.1 mg
9730-02	Fluorescein (FITC) Conjugate	100 tests
9730-08	Biotin (BIOT) Conjugate	100 tests
9730-09	*R-phycoerythrin (R-PE) Conjugate	100 tests
9730-11	Allophycocyanin (APC) Conjugate	100 tests
9730-14	Low Endotoxin, Azide-Free (LE/AF)	0.1 mg

DESCRIPTION

Clone DX2
Ig Isotype IgG₁
Specificity Human CD95/Fas/Apo-1

CD95, also known as Fas and Apo-1, is a 40-50 kDa type I transmembrane glycoprotein and a member of the tumor necrosis factor receptor superfamily. It is expressed by activated lymphocytes, monocytes, neutrophils, fibroblasts and cell lines. Fas ligand binding to CD95 induces apoptosis in activated mature lymphocytes thereby playing a role in maintaining peripheral tolerance. Crosslinking of CD95 by the monoclonal antibodies DX2 and DX3 delivers an apoptotic signal to Fas-sensitive cells, indicating that these monoclonal antibodies recognize a functional epitope of CD95.¹⁻⁵

RESEARCH APPLICATIONS

- Flow cytometry
- Immunohistochemistry (frozen sections)
- Immunoprecipitation
- *In vitro* induction of apoptosis

CHARACTERIZATION

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

WORKING DILUTIONS

Flow Cytometry:

Purified antibody	≤ 1 µg/10 ⁶ cells
Fluorescein conjugate	10 µL/10 ⁶ cells
Biotin conjugate	10 µL/10 ⁶ cells
R-phycoerythrin conjugate	10 µL/10 ⁶ cells
Allophycocyanin conjugate	10 µL/10 ⁶ cells

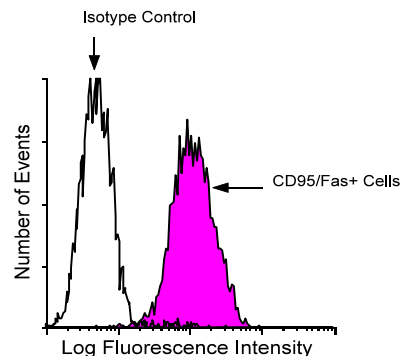
Other Applications: Since applications vary, you should determine the optimum working dilution of the product that is appropriate for your specific need.

For Research Purposes Only. Not for Use in Diagnostic or Therapeutic Applications.

IMMUNOFLUORESCENT STAINING

Product: Mouse Anti-Human CD95-FITC
Cat. No. 9730-02
Amount Used: 1 $\mu\text{g}/10^6$ cells

The Jurkat human lymphoma cell line was stained with mouse anti-human CD95/Fas-FITC, following which large cells were gated and analyzed on a FACScan™ flow cytometer (BDIS, San Jose, CA).



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) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. 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/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin/azide-free antibody is supplied as 0.5 mg purified immunoglobulin in 0.2 mL of PBS; aliquot and freeze upon receipt.
- Protect conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

WARNING

Reagents contain sodium azide which 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. Schlossman, S., L. Bloumsell, W. Gilks, J.M. Harlan, C. Kishimoto, J. Ritz, S. Shaw, R. Silverstein, T. Springer, T.F. Tedder, and R.F. Todd, eds. 1995. *Leukocyte Typing V: White Cell Differentiation Antigens*, Oxford University Press, Oxford.
2. Kishimoto, T., A.E.G. von dem Borne, S.M. Goyert, D.Y. Mason, M. Miyasaka, L. Moretta, K. Okumura, S. Shaw, T.A. Springer, K. Sugamura, and H. Zola, eds. 1998. *Leukocyte Typing VI: White Cell Differentiation Antigens*, Academic Press, New York.
3. 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*, CD95 Section, Academic Press, New York, p. 363.
4. Nagata, S., and P. Golstein. 1995. *Science* 267:3378.
5. van Parijs, L., and A.K. Abbas. 1996. *Curr. Opin. Immunol.* 8:355.

*US Patent No. 4,520,110; European Patent No. 76,695; and Canadian Patent No. 1,179,942.
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