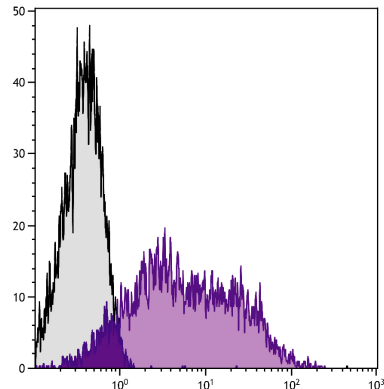




## Mouse Anti-Human CD95

Cat. No.	Format	Size
9730-01	Purified (UNLB)	0.1 mg
9730-02	Fluorescein (FITC)	100 tests
9730-02S	Fluorescein (FITC)	25 tests
9730-08	Biotin (BIOT)	100 tests
9730-09	R-phycoerythrin (PE)	100 tests
9730-09S	R-phycoerythrin (PE)	25 tests
9730-11	Allophycocyanin (APC)	100 tests
9730-11S	Allophycocyanin (APC)	25 tests
9730-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
9730-30	Alexa Fluor® 488 (AF488)	100 tests
9730-31	Alexa Fluor® 647 (AF647)	100 tests



Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD95-APC (SB Cat. No. 9730-11).

### Overview

<b>Clone</b>	DX2
<b>Isotype</b>	Mouse (C3H/He) IgG <sub>1κ</sub>
<b>Immunogen</b>	Human CD95 transfected L cells
<b>Specificity</b>	Human/Rhesus/African Green Monkey/Sooty Mangabey CD95; Mr 45 kDa
<b>Alternate Name(s)</b>	APO-1, Fas, TNFRSF6
<b>Workshop</b>	VI C-64

### Description

CD95, also known as Fas and APO-1, is a 45 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.

### Applications

FC – Quality tested <sup>1,2,8-15</sup>  
 IHC-FS – Reported in literature <sup>2</sup>  
 IHC-PS – Reported in literature <sup>3,4</sup>  
 ICC – Reported in literature <sup>5</sup>  
 IP – Reported in literature <sup>5,6</sup>  
 ELISA – Reported in literature <sup>7</sup>  
 Apop – Reported in literature <sup>1,8</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	≤ 1 μg/10 <sup>6</sup> cells
	FITC, BIOT, PE, APC, AF488 and AF647 conjugates	10 μL/10 <sup>6</sup> cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	

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

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

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA Mailing Address: P.O. Box 26221 • Birmingham, AL 35260 • USA

Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • Fax: 205.945.8768

Email: [info@southernbiotech.com](mailto:info@southernbiotech.com) • Website: [www.southernbiotech.com](http://www.southernbiotech.com)

## Handling and Storage

---

- The purified (UNLB) antibody is supplied as 0.1 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 25 tests in 0.25 mL or 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 (PE) and allophycocyanin (APC) conjugates are supplied as 25 tests in 0.25 mL or 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 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 Alexa Fluor® 488 (AF488) and Alexa Fluor® 647 (AF647) conjugates are supplied as 100 tests in 1.0 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

---

1. Cifone MG, De Maria R, Roncaioli P, Rippo MR, Azuma M, Lanier LL, et al. Apoptotic signaling through CD95 (Fas/Apo-1) activates an acidic sphingomyelinase. *J Exp Med.* 1993;177:1547-52. (Immunogen, Apoptosis, FC)
2. Metkar SS, Naresh KN, Redkar AA, Soman CS, Advani SH, Nadkarni JJ. Expression of Fas and Fas ligand in Hodgkin's disease. *Leuk Lymphoma.* 1999;33:521-30. (IHC-FS, FC)
3. Sergi C, Kahl P, Otto HF. Contribution of apoptosis and apoptosis-related proteins to the malformation of the primitive intrahepatic biliary system in Meckel syndrome. *Am J Pathol.* 2000;156:1589-98. (IHC-PS)
4. Zietz C, Rumpler U, Stürzl M, Löhns U. Inverse relation of Fas-ligand and tumor-infiltrating lymphocytes in angiosarcoma: indications of apoptotic tumor counterattack. *Am J Pathol.* 2001;159:963-70. (IHC-PS)
5. Parlato S, Giammariolo AM, Mogozi M, Lozupone F, Falchi M, Malorni W, et al. CD95 (APO-1-Fas) linkage to the actin cytoskeleton through ezrin in human T lymphocytes- a novel regulatory mechanism of the CD95 apoptotic pathway. *EMBO J.* 2000;19:5123-34. (ICC, IP)
6. Lozupone F, Lugini L, Matarrese P, Luciani F, Federici C, Iessi E, et al. Identification and relevance of the CD95-binding domain in the N-terminal region of ezrin. *J Biol Chem.* 2004;279:9199-207. (IP)
7. Jodo S, Kobayashi S, Kayagaki N, Ogura N, Feng Y, Amasaki Y, et al. Serum levels of soluble Fas/APO-1 (CD95) and its molecular structure in patients with systemic lupus erythematosus (SLE) and other autoimmune diseases. *Clin Exp Immunol.* 1997;107:89-95. (ELISA)
8. Boonstra JG, van der Woude F, Wever PC, Laterveer JC, Daha MR, van Kooten C. Expression and function of Fas (CD95) on human renal tubular epithelial cells. *J Am Soc Nephrol.* 1997;8:1517-24. (Apoptosis, FC)
9. Ruffell B, Johnson P. Hyaluronan induces cell death in activated T cells through CD44. *J Immunol.* 2008;181:7044-54. (FC)
10. Szyszko EA, Brun JG, Skarstein K, Peck AB, Jonsson R, Brokstad KA. Phenotypic diversity of peripheral blood plasma cells in primary Sjögren's syndrome. *Scand J Immunol.* 2011;73:18-28. (FC)
11. Daflon-Yunes N, Pinto-Silva FE, Vidal RS, Novis BF, Berguetti T, Lopes RR, et al. Characterization of a multidrug-resistant chronic myeloid leukemia cell line presenting multiple resistance mechanisms. *Mol Cell Biochem.* 2013;383:123-35. (FC)
12. Liu J, Ewald BA, Lynch DM, Denholtz M, Abbink P, Lemckert AA, et al. Magnitude and phenotype of cellular immune responses elicited by recombinant adenovirus vectors and heterologous prime-boost regimens in rhesus monkeys. *J Virol.* 2008;82:4844-52. (FC, Rhesus Reactivity)
13. Zahn RC, Rett MD, Koriath-Schmitz B, Sun Y, Buzby AP, Goldstein S, et al. Simian immunodeficiency virus (SIV)-specific CD8<sup>+</sup> T-cell responses in vervet African green monkeys chronically infected with SIVagm. *J Virol.* 2008;82:11577-88. (FC, African Green Monkey Reactivity)
14. Vanderford TH, Slichter C, Rogers KA, Lawson BO, Obaede R, Else J, et al. Treatment of SIV-infected sooty mangabeys with a type-I IFN agonist results in decreased virus replication without inducing hyperimmune activation. *Blood.* 2012;119:5750-7. (FC, Sooty Mangabey Reactivity)
15. Sumpter B, Dunham R, Gordon S, Ingram J, Hennessy M, Kinter A, et al. Correlates of preserved CD4<sup>+</sup> T cell homeostasis during natural, nonpathogenic simian immunodeficiency virus infection of sooty mangabeys: implications for AIDS pathogenesis. *J Immunol.* 2007;178:1680-91. (FC, Sooty Mangabey Reactivity)

Alexa Fluor® 488, 647, 700 and Pacific Blue™ are provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation), and Southern Biotechnology Associates, Inc., and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for any other use, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA, Tel: (541) 465-8300. Fax: (541) 335-0504.

TB9730  
08-Oct-21

**Corporate Offices:** 160 Oxmoor Blvd • Birmingham, AL 35209 • USA **Mailing Address:** P.O. Box 26221 • Birmingham, AL 35260 • USA

**Tel:** 205.945.1774 • U.S. and Canada: 800.722.2255 • **Fax:** 205.945.8768

**Email:** [info@southernbiotech.com](mailto:info@southernbiotech.com) • **Website:** [www.southernbiotech.com](http://www.southernbiotech.com)