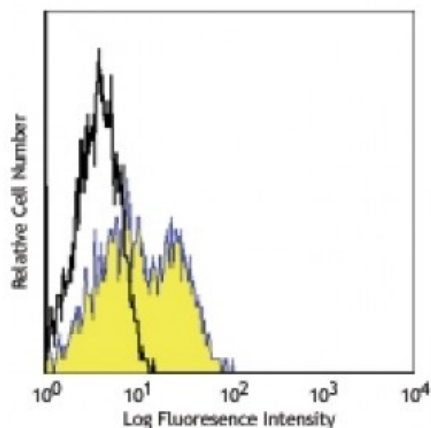


**Alexa Fluor® 488 anti-human CD95 (Fas)**

<b>Catalog # / Size:</b>	2128080 / 100 tests 2128075 / 25 tests
<b>Clone:</b>	DX2
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Immunogen:</b>	CD95 transfected L cells
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Workshop Number:</b>	VI C-64
<b>Concentration:</b>	Lot-specific



Human peripheral blood lymphocytes stained with DX2 Alexa Fluor® 488

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

**Application Notes:** The DX2 antibody is useful for inducing apoptosis of Fas-positive cells. Additional reported applications (for the relevant formats) include: *in vitro* induction of apoptosis<sup>3</sup> (DX2 antibody is required to be cross-linked for effective induction of apoptosis) and immunohistochemical staining<sup>4,5</sup> of acetone-fixed frozen tissue sections and formalin-fixed paraffin-embedded tissue sections. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 305614).

**Note:** EOS9.1 antibody (Cat. No. 305704) can induce apoptosis without cross-linking.

- Application References:**
- Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
  - Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. New York.
  - Cifone M, *et al.* 1994. *J. Exp. Med.* 180:1547. (Apop)
  - Zietz C, *et al.* 2001. *Am. J. Pathol.* 159:963. (IHC)
  - Sergi C, *et al.* 2000. *Am. J. Pathol.* 156:1589. (IHC)
  - Xie S, *et al.* 2010. *J. Immunol.* 184:2289. (FC) [PubMed](#)
  - Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
  - Sestak K, *et al.* 2007. *Vet. Immunol. Immunopathol.* 119:21.
  - Rout N, *et al.* 2010. *PLoS One* 5:e9787. (FC)

**Description:** CD95 is a 45 kD single chain type I glycoprotein also known as Fas, APO-1, and TNFRSF6. It is a member of the TNF receptor superfamily. CD95 is expressed on T and B lymphocytes, monocytes, neutrophils, and fibroblasts. CD95 expression is upregulated by activation. The extracellular region of CD95 binds to CD178 (Fas ligand). CD178 binding to CD95 induces apoptosis and has been shown to play a role in the maintenance of peripheral tolerance.

**Antigen** 1. Krammer P, *et al.* 1994. *Immunol. Rev.* 142:175.  
**References:** 2. Nagata S, *et al.* 1995. *Science* 267:1449.