

# Product Data Sheet

## PE anti-human CD95 (FAS)

**Catalog # / Size:** 305607 / 25 tests  
305608 / 100 tests

**Clone:** DX2

**Isotype:** Mouse IgG1,  $\kappa$

**Workshop Number:** VI C-64

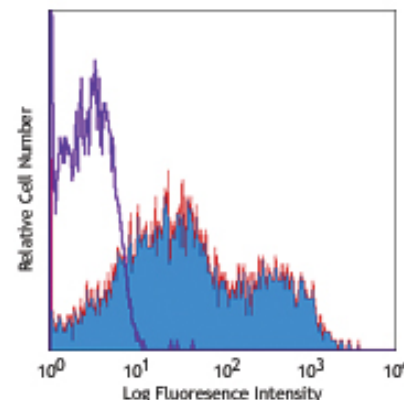
**Immunogen:** CD95 transfected L cells

**Reactivity:** Human, **Cross-Reactivity:** African Green, Baboon, Capuchin Monkey, Chimpanzee, Common Marmoset, Cotton-topped Tamarin, Cynomolgus, Pigtailed Macaque, Rhesus, Sooty Mangabey

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with DX2 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**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/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for functional assays (Cat. No. 305614).

**Note:** EOS9.1 antibody (cat. No. 305703/305704) can induce apoptosis without cross-linking process.

- 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)
  - Hu W, *et al.* 2012. *Asian J Androl.* PubMed.

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

### Related Products:

**Product**  
PE anti-human CD178 (Fas-L)  
PE Mouse IgG1,  $\kappa$  Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)  
Human TruStain FcX™ (Fc Receptor Blocking Solution)

**Clone**  
NOK-1  
MOPC-21

**Application**  
FC  
FC, ICFC  
FC, ICC, ICFC  
FC, ICFC  
FC, ICC, ICFC



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