

# Product Data Sheet

## LEAF™ Purified anti-human CD95 (FAS)

**Catalog # / Size:** 305613 / 50 µg  
305614 / 500 µg

**Clone:** DX2

**Isotype:** Mouse IgG1, κ

**Workshop Number:** VI C-64

**Immunogen:** CD95 transfected L cells

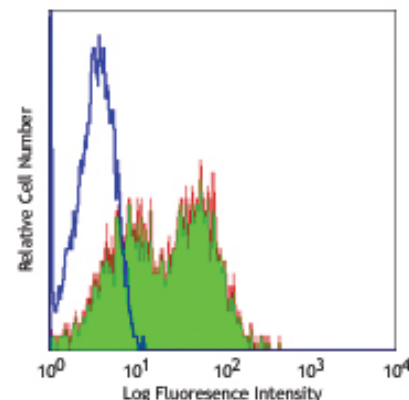
**Reactivity:** Human, **Cross-Reactivity:** African Green, Baboon, Capuchin Monkey, Chimpanzee, Common Marmoset, Cotton-topped Tamarin, Cynomolgus, Pigtailed Macaque, Rhesus, Sooty Mangabey

**Preparation:** The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

**Formulation:** 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

**Concentration:** 1.0 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Human peripheral blood lymphocytes stained with LEAF™ purified DX2, followed by anti-mouse IgG FITC

## Applications:

**Applications:** FC - *Quality tested*  
IF - *Validated*  
IHC, Apop - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 2.0 µg per 10<sup>6</sup> cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**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. 305703/305704) can induce apoptosis without cross-linking process.

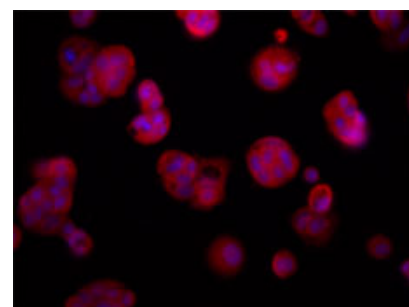
**Application References:**

- 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)

**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.



MCF7 breast cancer cells were stained with anti-human CD95 (clone DX2) using 1:100 dilution, followed by DyLight™ 649 anti-mouse IgG secondary antibody (red) plus DAPI staining for nuclei (blue). Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100, blocked with 10% serum, and incubated O/N at 4°C. Images were taken under 20x (filter set: EX 647/10x, Dichroic 665LP, EM 700/70x) at exposure 4s. Data provided by John Nolan and Er Liu, La Jolla Bioengineering Institute.



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**Related Products: Product**

LEAF™ Purified anti-human CD95 (FAS)  
LEAF™ Purified anti-human CD178 (Fas-L)  
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

**Clone**

EOS9.1  
NOK-1  
MOPC-21

**Application**

FC, Apop  
FC, Block, ICC, IF, IP, WB  
FC, ICFC, WB, IP, ICC, IF, FA  
FC, ICC, ICFC  
FC, ICFC



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