

Product Data Sheet

Biotin anti-human CD95 (FAS)

Catalog # / Size: 305604 / 100 µg

Clone: DX2

Isotype: Mouse IgG1, κ

Workshop Number: VI C-64

Immunogen: CD95 transfected L cells

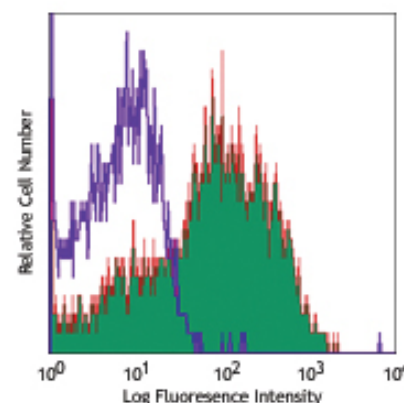
Reactivity: Human, **Cross-Reactivity:** African Green, Baboon, Capuchin Monkey, Chimpanzee, Common Marmoset, Cotton-topped Tamarin, Cynomolgus, Pigtailed Macaque, Rhesus, Sooty Mangabey

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Human peripheral blood lymphocytes stained with biotinylated DX2, followed by Sav-PE

Applications:

Applications: FC - Quality tested

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 ≤0.5 µg per million cells in 100 µl volume. 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 apoptosis³ (DX2 antibody is required to be cross-linked for effective induction of apoptosis) and immunohistochemical staining^{4,5} 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.

Related Products:

Product	Clone	Application
Biotin anti-human CD178 (Fas-L)	NOK-1	FC
Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
APC Streptavidin		FC, ICFC
APC/Cy7 Streptavidin		FC, ICFC
FITC Streptavidin		FC, ICFC
PE Streptavidin		FC, ICFC
PE/Cy5 Streptavidin		FC, ICFC
PE/Cy7 Streptavidin		FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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