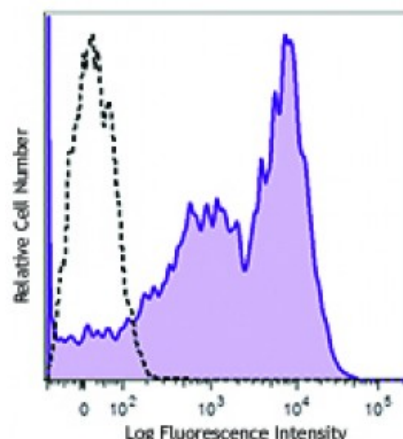


PE/Dazzle™ 594 anti-human CD95 (Fas)

Catalog # / Size:	2128170 / 100 tests 2128165 / 25 tests
Clone:	DX2
Isotype:	Mouse IgG1, κ
Immunogen:	CD95 transfected L cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	VI C-64
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD95 (clone DX2) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (open histogram).

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.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 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 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. 305704) can induce apoptosis without cross-linking.

- Application References:**
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 - 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)
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9. Rout N, *et al.* 2010. *PLoS One* 5:e9787. (FC)
10. Dixit N, *et al.* 2012. *J. Immunol.* 189:5954. [PubMed](#)
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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: 1. Krammer P, *et al.* 1994. *Immunol. Rev.* 142:175.
2. Nagata S, *et al.* 1995. *Science* 267:1449.