

**Brilliant Violet 605™ anti-human CD95 (Fas)**

**Catalog # / Size:** 2128140 / 100 tests  
2128135 / 25 tests

**Clone:** DX2

**Isotype:** Mouse IgG1, κ

**Immunogen:** CD95 transfected L cells

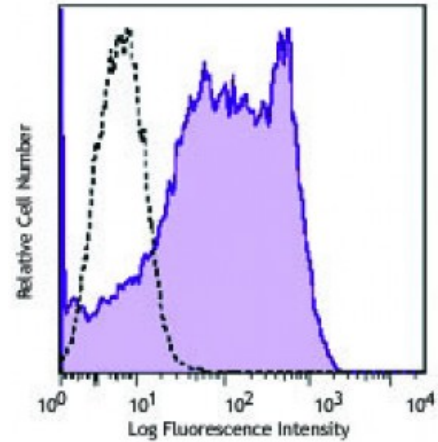
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 605™ and unconjugated antibody.

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

**Workshop Number:** VI C-64

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD95 (clone DX2) Brilliant Violet 605™ (filled histogram) or mouse IgG1, κ Brilliant Violet 605™ (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.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.

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**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 (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** 1. Schlossman S, *et al.* Eds.1995. Leucocyte Typing V. Oxford University Press. New York.
- References:** 2. Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. New York.
3. Cifone M, *et al.* 1994. *J. Exp. Med.* 180:1547. (Apop)
4. Zietz C, *et al.* 2001. *Am. J. Pathol.* 159:963. (IHC)
5. Sergi C, *et al.* 2000. *Am. J. Pathol.* 156:1589. (IHC)
6. Xie S, *et al.* 2010. *J. Immunol.* 184:2289. (FC) [PubMed](#)
7. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
8. Sestak K, *et al.* 2007. *Vet. Immunol. Immunopathol.* 119:21.
9. Rout N, *et al.* 2010. *PLoS One* 5:e9787. (FC)
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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** 1. Krammer P, *et al.* 1994. *Immunol. Rev.* 142:175.
- References:** 2. Nagata S, *et al.* 1995. *Science* 267:1449.