

## Brilliant Violet 711™ anti-human CD95 (Fas) Antibody

<b>Catalog# / Size</b>	305643 / 25 tests 305644 / 100 tests
<b>Clone</b>	DX2
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	VI C-64
<b>Other Names</b>	Fas, APO-1, TNFRSF6
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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.

### Product Details

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<b>Verified Reactivity</b>	Human, Cynomolgus, Rhesus
<b>Reported Reactivity</b>	African Green, Baboon, Capuchin Monkey, Chimpanzee, Common Marmoset, Cotton-topped Tamarin, Pigtailed Macaque, Sooty Mangabey
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	CD95 transfected L cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.</p> <p>Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. <b>Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.</b> Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
<b>Excitation Laser</b>	Violet Laser (405 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 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 Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 305655 and 305656).

**Note:** EOS9.1 antibody can induce apoptosis without cross-linking.

## Application References

(PubMed link indicates BioLegend citation)

1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
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)
10. Dixit N, *et al.* 2012. *J. Immunol.* 189:5954. [PubMed](#)

## Product Citations

1. Huang X, *et al.* 2021. *Nat Nanotechnol.* 16:214. [PubMed](#)
2. Kuri-Cervantes L, *et al.* 2020. *STAR Protoc.* 1:100154. [PubMed](#)
3. Benjamin Krämer, *et al.* 2021. *Immunity.* Online ahead of print. [PubMed](#)
4. He X, *et al.* 2021. *Cell.* 184(13):3467-3473.e11. [PubMed](#)

## RRID

AB\_2629740 (BioLegend Cat. No. 305643)  
AB\_2632623 (BioLegend Cat. No. 305644)

## Antigen Details

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<b>Structure</b>	TNFR superfamily, type I transmembrane protein, 45 kD
<b>Distribution</b>	T cells and B cells, monocytes, neutrophils, fibroblasts, expression level upregulated on activated lymphocytes
<b>Function</b>	Mediates apoptosis
<b>Ligand/Receptor</b>	Fas ligand (CD178)
<b>Cell Type</b>	B cells, Fibroblasts, Lymphocytes, Monocytes, Neutrophils, T cells
<b>Biology Area</b>	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Immunology, Neuroscience
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Krammer P, <i>et al.</i> 1994. <i>Immunol. Rev.</i> 142:175. 2. Nagata S, <i>et al.</i> 1995. <i>Science</i> 267:1449.
<b>Gene ID</b>	<a href="#">355</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

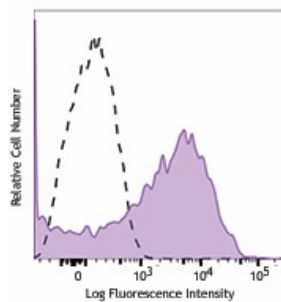
## Other Formats

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APC anti-human CD95 (Fas), Biotin anti-human CD95 (Fas), FITC anti-human CD95 (Fas), PE anti-human CD95 (Fas), PE/Cyanine5 anti-human CD95 (Fas), Purified anti-human CD95 (Fas), Alexa Fluor® 488 anti-human CD95 (Fas), Alexa Fluor® 647 anti-human CD95 (Fas), Brilliant Violet 421™ anti-human CD95 (Fas), Pacific Blue™ anti-human CD95 (Fas), PE/Cyanine7 anti-human CD95 (Fas), Brilliant Violet 605™ anti-human CD95 (Fas), PerCP/Cyanine5.5 anti-human CD95 (Fas), Purified anti-human CD95 (Fas) (Maxpar® Ready), PE/Dazzle™ 594 anti-human CD95 (Fas), APC/Fire™ 750 anti-human CD95 (Fas), APC/Cyanine7 anti-human CD95 (Fas), Brilliant Violet 510™ anti-human CD95 (Fas), Brilliant Violet 711™ anti-human CD95 (Fas), Brilliant Violet 785™ anti-human CD95 (Fas), Brilliant Violet 650™ anti-human CD95 (Fas), Alexa Fluor® 700 anti-human CD95 (Fas), TotalSeq™-A0156 anti-human CD95 (Fas), TotalSeq™-C0156 anti-human CD95 (Fas), TotalSeq™-B0156 anti-human CD95 (Fas), Ultra-LEAF™ Purified anti-human CD95 (Fas), TotalSeq™-D0156 anti-human CD95 (Fas), PE/Fire™ 640 anti-human CD95 (Fas), KIRAVIA Blue 520™ anti-human CD95 (Fas), APC/Fire™ 810 anti-human CD95 (Fas) Antibody

## Product Data

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Human peripheral blood lymphocytes were stained with CD95 (clone DX2) Brilliant Violet 711™ (filled histogram) or mouse IgG1, κ Brilliant Violet 711™ (open histogram).

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