

## GMP PE anti-human CD95 (Fas) Antibody

<b>Catalog# / Size</b>	260384 / 100 tests
<b>Clone</b>	DX2
<b>Workshop</b>	VI C-64
<b>Other Names</b>	Fas, APO-1, TNFRSF6
<b>Isotype</b>	Mouse IgG1, $\kappa$
<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>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 0.2% (w/v) BSA (origin USA) and a stabilizer.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
<b>Concentration</b>	100 $\mu$ g/mL
<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>	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 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	The DX2 antibody is useful for inducing apoptosis of Fas-positive cells. Additional reported applications (for the relevant formats) include: <i>in vitro</i> 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/ $\mu$ g, Azide-Free, 0.2 $\mu$ m filtered) is recommended for functional assays (Cat. No. 305655 and 305656).  <b>Note:</b> 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](#)

## Disclaimer

**GMP RUO Flow Cytometry Antibodies.** BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

- Batch-to-batch consistency
- Material traceability
- Documented procedures
- Documented employee training
- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

## 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](#)

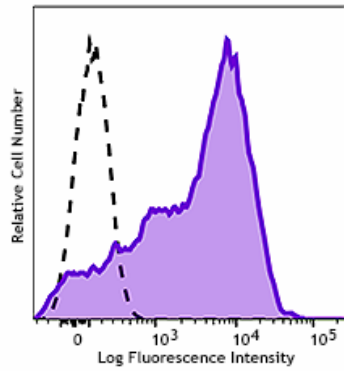
## Other Formats

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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, PE anti-human CD95, Spark YG™ 593 anti-human CD95 (Fas), PE/Fire™ 700 anti-human CD95 (Fas), PerCP/Fire™ 780 anti-human CD95 (Fas), Spark Blue™ 574 anti-human CD95 (Fas), Spark Red™ 718 anti-human CD95 (Fas)

## Product Data

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Typical results from human peripheral blood lymphocytes stained either with DX2 PE used at 5  $\mu$ L/test (filled histogram) or with an isotype control (open histogram).

For Research Use Only. Suitable for *ex vivo* cell processing. Not for injection or diagnostic or therapeutic use.

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8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587