

Spark PLUS YG581™ anti-human CD95 (Fas) Antibody

Catalog# / Size	305683 / 25 tests 305684 / 100 tests
Clone	DX2
Regulatory Status	RUO
Workshop	VI C-64
Other Names	Fas, APO-1, TNFRSF6
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	CD95 transfected L cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS YG581™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS YG581™ has a maximum excitation of 562 nm and a maximum emission of 581 nm.
Excitation Laser	Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	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 ³ (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 Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/ μ g, Azide-Free, 0.2 μ m 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](#)

Antigen Details

Structure	TNFR superfamily, type I transmembrane protein, 45 kD
Distribution	T cells and B cells, monocytes, neutrophils, fibroblasts, expression level upregulated on activated lymphocytes
Function	Mediates apoptosis
Ligand/Receptor	Fas ligand (CD178)
Cell Type	B cells, Fibroblasts, Lymphocytes, Monocytes, Neutrophils, T cells
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Immunology, Neuroscience
Molecular Family	CD Molecules
Antigen References	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.
Gene ID	355

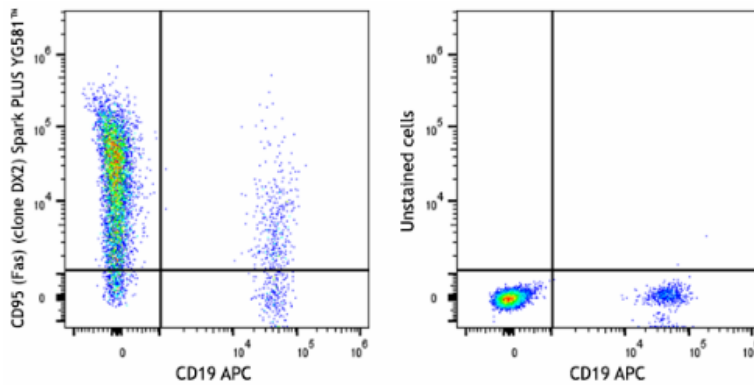
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

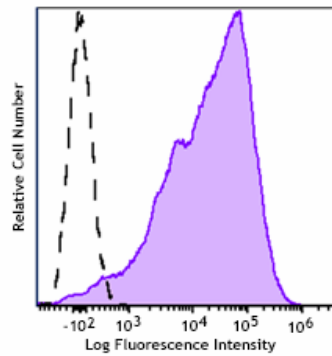
Other Formats

TotalSeq™-D0156 anti-human CD95 (Fas), PE/Fire™ 640 anti-human CD95 (Fas), APC/Fire™ 810 anti-human CD95 (Fas) Antibody, PE anti-human CD95, PerCP/Fire™ 780 anti-human CD95 (Fas), KIRAVIA Blue 520™ anti-human CD95 (Fas), Purified anti-human CD95 (Fas) (Maxpar® Ready), PE/Dazzle™ 594 anti-human CD95 (Fas), Spark Red™ 718 anti-human CD95 (Fas), Pacific Blue™ anti-human CD95 (Fas), PE anti-human CD95 (Fas), Purified anti-human CD95 (Fas), PE/Cyanine7 anti-human CD95 (Fas), APC anti-human CD95 (Fas), Biotin anti-human CD95 (Fas), FITC anti-human CD95 (Fas), Brilliant Violet 421™ anti-human CD95 (Fas), PE/Cyanine5 anti-human CD95 (Fas), Brilliant Violet 605™ anti-human CD95 (Fas), PerCP/Cyanine5.5 anti-human CD95 (Fas), PerCP/Fire™ 806 anti-human CD95 (Fas), PE/Fire™ 700 anti-human CD95 (Fas), Spark YG™ 593 anti-human CD95 (Fas), Spark Blue™ 574 anti-human CD95 (Fas), PerCP anti-human CD95 (Fas), Spark PLUS V475™ anti-human CD95 (Fas), Spark PLUS YG581™ anti-human CD95 (Fas), APC/Cyanine7 anti-human CD95 (Fas), Alexa Fluor® 647 anti-human CD95 (Fas), APC/Fire™ 750 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), TotalSeq™-C0156 anti-human CD95 (Fas), TotalSeq™-B0156 anti-human CD95 (Fas), Ultra-LEAF™ Purified anti-human CD95 (Fas), GMP PE anti-human CD95 (Fas), Spark NIR™ 685 anti-human CD95 (Fas) (Flexi-Fluor™) Antibody, Spark UV™ 387 anti-human CD95 (Fas) (Flexi-Fluor™), PE/Fire™ 744 anti-human CD95 (Fas), Alexa Fluor® 488 anti-human CD95 (Fas), TotalSeq™-A0156 anti-human CD95 (Fas), Spark YG™ 581 anti-human CD95 (Fas) (Flexi-Fluor™), Alexa Fluor® 700 anti-human CD95 (Fas)

Product Data



Human peripheral blood mononuclear cells were stained with anti-human CD19 (clone HIB19) APC and anti-human CD95 (Fas) (clone DX2) Spark PLUS YG581™ (left) or stained with anti-human CD19 (clone HIB19) APC only (right). Data shown were gated on the lymphocyte population.



Human peripheral blood mononuclear cells were stained with anti-human CD95 (Fas) (clone DX2) Spark PLUS YG581™ (filled histogram). Open histogram represents unstained cells. Data shown are gated on the lymphocyte population.

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