

PE/Fire™ 744 anti-human CD95 (Fas) Antibody

Catalog# / Size	305677 / 25 tests 305678 / 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
Reported Reactivity	African Green, Baboon, Capuchin Monkey, Chimpanzee, Common Marmoset, Cotton-topped Tamarin, Pigtailed Macaque, Sooty Mangabey
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 PE/Fire™ 744 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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages. * PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm.
Excitation Laser	Blue Laser (488 nm) 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/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](#)

RRID

AB_3717133 (BioLegend Cat. No. 305677)
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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

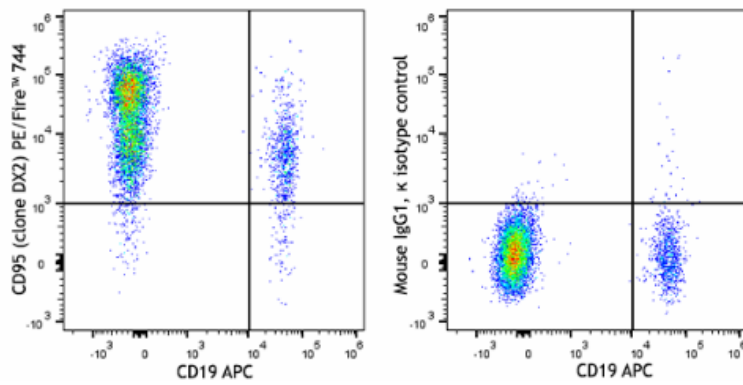
Related Protocols

- [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 lymphocytes were stained with anti-human CD19 (clone HIB19) APC and anti-human CD95 (Fas) (clone DX2) PE/Fire™ 744 (left) or mouse IgG1, κ PE/Fire™ 744 isotype control (right).

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