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The path to legendary discovery™

Product Data Sheet

Pacific Blue™ anti-human CD95 (Fas)

Catalog # / Size: 305619 / 100 tests

Clone: DX2

Isotype: Mouse IgG1, κ

Workshop Number: VI C-64

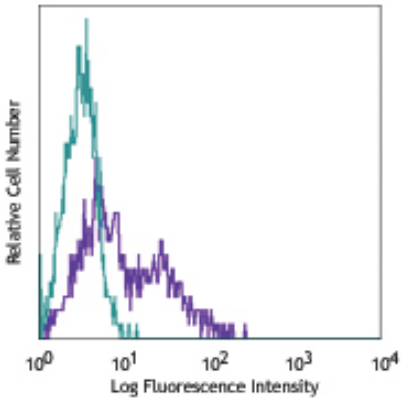
Immunogen: CD95 transfected L cells

Reactivity: Human, **Cross-Reactivity:** African Green, Baboon, Capuchin Monkey, Chimpanzee, Common Marmoset, Cotton-topped Tamarin, Cynomolgus, Pigtailed Macaque, Rhesus, Sooty Mangabey

Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with DX2 Pacific Blue™

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
** Pacific Blue™ is a registered trademark of Molecular Probes, Inc. Pacific Blue™ dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

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[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 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. 305703/305704) can induce apoptosis without cross-linking process.

Application References:
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)

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 References:
1. Krammer P, *et al.* 1994. *Immunol. Rev.* 142:175.
2. Nagata S, *et al.* 1995. *Science* 267:1449.

Related Products:

Product	Clone	Application
Pacific Blue™ Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

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