Product Data Sheet

PerCP/Cy5.5 anti-human CD95 (Fas)

Catalog # / Size:	2128150 / 100 tests 2128145 / 25 tests
Clone:	DX2
Isotype:	Mouse IgG1, κ
Immunogen:	CD95 transfected L cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cyanine5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cyanine5.5 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	VI C-64
Concentration:	Lot-specific

Human peripheral blood lymphocytes were stained with CD95 (clone DX2) PerCP/Cy5.5 (filled histogram) or mouse IgG1, κ PerCP/Cy5.5 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
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 ≤ 0.25 µg per 10^6 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 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 apoptosis3 (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. 305704) can induce apoptosis without cross-linking.
Application References:	1. Krammer P, *et al.* 1994. *Immunol. Rev.* 142:175. 2. Nagata S, *et al.* 1995. *Science* 267:1449.

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.