



## CD95 (fas/Apo-1)

**Product:** Anti-human CD95 (fas/Apo-1).

**Description:** Activation of either the 55-kD tumor necrosis factor receptor (TNF-R1) or CD95 (Fas/Apo-1) causes apoptosis of cells and liver failure in mice, and has been associated with human liver disorders. The aim of this study was first to clarify the association between CD95 activation, hepatocyte apoptosis, and fulminant liver failure. Next, we investigated whether TNF-R1 and CD95 operate independently of each other in the induction of hepatocyte apoptosis.

**Isotype:** Mouse IgG-1 kappa.

**Clone:** 3.22

**Applications:** Monitoring of activated T cells in peripheral blood; Analysis of NK subsets; Study of B cell activation

**Use:** PBMC: Add 10  $\mu$ l of MAB/10<sup>6</sup> PBMC in 100  $\mu$ l PBS. Mix gently and incubate for 15 minutes at 2<sup>o</sup> to 8<sup>o</sup>C. Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

WHOLE BLOOD: Add 10  $\mu$ l of MAB/100  $\mu$ l of whole blood. Mix gently and incubate for 15 minutes at room temperature 20<sup>o</sup>C. Lyse the whole blood. Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze. See instrument manufacturer's instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.

**Storage:** Conjugated antibodies are supplied in PBS, 0.08% sodium azide and 0.2% protein carrier and should be stored at 4-8<sup>o</sup>C. Conjugated antibodies should not be frozen. Reagents are stable for the period shown on the vial label when stored properly.

Ordering Information:	Form	Vial Size	Catalog #
	FITC	100 Test	0952
	RPE	100 Test	0954

**For research use only. Not for use in human diagnostics or therapeutics.**

## REFERENCES:

- 1) The 55-kD tumor necrosis factor receptor and CD95 independently signal murine hepatocyte apoptosis and subsequent liver failure.  
Author : Leist M; Gantner F; K<sup>u</sup>nstle G; Bohlinger I; Tiegs G; Bluethmann H; Wendel A  
Source : Mol Med, 2(1):109-24 1996 Jan
- 2) Regulation of CD95 ligand expression: a key element in immune regulation?  
Author : Brunner T; Yoo NJ; Griffith TS; Ferguson TA; Green DR  
Source : Behring Inst Mitt, (97):161-74 1996 Oct
- 3) Expression of CD95 antigen and Bcl-2 protein in non-Hodgkin's lymphomas and Hodgkin's disease [published erratum appears in Am J Pathol 1996 Jul;149(1):346]  
Author : Nguyen PL; Harris NL; Ritz J; Robertson MJ  
Source : Am J Pathol, 148(3):847-53 1996 Mar
- 4) Relation of oxidative stress and glutathione synthesis to CD95(Fas/APO-1)-mediated apoptosis of adult T cell leukemia cells.  
Author : Kohno T; Yamada Y; Hata T; Mori H; Yamamura M; Tomonaga M; Urata Y; Goto S; Kondo T  
Source : J Immunol, 156(12):4722-8 1996 Jun 15
- 5) Clonal deletion of major histocompatibility complex class I-restricted CD4+CD8+ thymocytes in vitro is independent of the CD95 (APO-1/Fas) ligand.  
Author : M<sup>u</sup>ller KP; Mariani SM; Matiba B; Kyewski B; Krammer PH  
Source : Eur J Immunol, 25(10):2996-9 1995 Oct
- 6) Activation of the CD95 system increases with disease progression in human immunodeficiency virus type 1-infected children and adolescents.  
Author : B<sup>o</sup>hler T; B<sup>o</sup>aumler C; Herr I; Groll A; Kurz M; Debatin KM  
Source : Pediatr Infect Dis J, 16(8):754-9 1997 Aug
- 7) Fc gammaRIII-mediated regulation of hematopoiesis in murine bone marrow cells by interleukin-3 and CD95 (Fas/Apo-1).  
Author : Yoshikawa H; Sakihama T; Nakajima Y; Tasaka K  
Source : Blood, 90(5):1911-9 1997 Sep 1
- 8) Human autoreactive and foreign antigen-specific T cells resist apoptosis induced by soluble recombinant CD95 ligand.  
Author : Zipp F; Martin R; Lichtenfels R; Roth W; Dichgans J; Krammer PH; Weller M  
Source : J Immunol, 159(5):2108-15 1997 Sep 1
- 9) The CD95 (APO-1/Fas) system mediates drug-induced apoptosis in neuroblastoma cells.  
Author : Fulda S; Sieverts H; Friesen C; Herr I; Debatin KM Research Center, Heidelberg.  
Source : Cancer Res, 57(17):3823-9 1997 Sep 1
- 10) Differential CD95 expression and function in T and B lineage acute lymphoblastic leukemia cells. Author : Karawajew L; Wuchter C; Ruppert V; Drexler H; Gruss HJ; D<sup>o</sup>rken B; Ludwig W. D. Source : Leukemia, 11(8):1245-52 1997 Aug

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