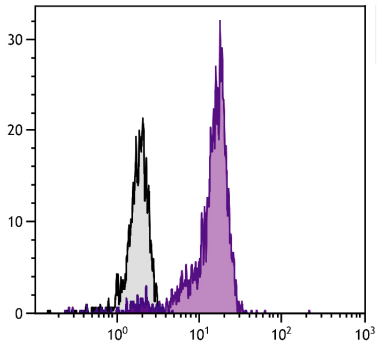
SouthernBiotech

Mouse Anti-Human Fas Ligand

Cat. No.	Format	Size
12115-01	Purified (UNLB)	0.1 mg
12115-02	Fluorescein (FITC)	0.1 mg



1,10-Phenanthroline stimulated human peripheral blood monocytes were stained with Mouse Anti-Human Fas Ligand-FITC (SB Cat. No. 12115-02).

Overview

Clone	SB93a
Isotype	Mouse (BALB/c) $IgG_{2b}\kappa$
Immunogen	Recombinant human Fas ligand
Specificity	Human/Chicken Fas ligand
Alternate Name(s)	FasL, CD178, CD95L, TNFSF6

Description

Fas ligand (CD178) is a 40 kD type II transmembrane protein that is a member of the tumor necrosis factor superfamily. This well characterized potent apoptotic factor is utilized by cytotoxic T cells and natural killer cells to selectively kill virus infected and tumorigenic cells. Moreover, studies indicate that Fas ligand is an important regulator in immune homeostasis where it has been shown to down-regulate immune responses during activation-induced cell death. Fas ligand initiates apoptosis by binding to its receptor, CD95, on target cells which facilitates recruitment of numerous signaling proteins to form a death inducing signaling complex. This signaling complex is then believed to propagate the apoptotic signal through the recruitment and activation of caspase-8.

The SB93a monoclonal antibody detects a band at ~40 kDa corresponding to the transmembrane/insoluble form of Fas ligand.

Applications

FC – Quality tested [1-3]
IHC-FS – Reported in literature [4]
IF – Reported in literature [5]
WB [6]
IP [6]

Working Dilutions

Flow Cytometry	FITC conjugate	≤ 1 μg/10^6 cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	
Immunoblotting	Purified (UNLB) antibody	≤ 2 μg/mL
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 0.2 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added*. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.1 mg in 0.2 mL of PBS/NaN_3. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Carney EF, Srinivasan V, Moss PA, Taylor AM. Classical ataxia telangiectasia patients have a congenitally aged immune system with high expression of CD95. J Immunol. 2012;189:261-8. (FC)
2. Goldberg J, Bier C, Hotz-Behofsits C, Hanscom S, inventors; PIN Pharma, Inc., assignee. Treatment of inflammation, autoimmune, and neurodegenerative disorders with immunosuppressive tat derivative polypeptides. United States patent application publication US 2014/0178420 A1. 2014 Jun 26. (FC)
3. Mensen A, Oh Y, Becker SC, Hemmati PG, Jehn C, Westermann J, et al. Apoptosis susceptibility prolongs the lack of memory B cells in acute leukemic patients after allogeneic hematopoietic stem cell transplantation. Biol Blood Marrow Transplant. 2015;21:1895-906. (FC)
4. Rauf A, Khatri M, Murgia MV, Saif YM. Fas/FasL and perforin-granzyme pathways mediated T cell cytotoxic responses in infectious bursal disease virus infected chickens. Results Immunol. 2012;2:112-9. (IHC-FS, Chicken Reactivity)
5. Yunker PJ, Asahara H, Hung K, Landry C, Arriage LR, Akartuna I. One-pot system for synthesis, assembly, and display of functional single-span membrane proteins on oil-water interfaces. Proc Natl Acad Sci USA. 2016;113:608-13. (IF)
6. SouthernBiotech unpublished data

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