

Anti-FasL (human) Monoclonal Antibody (5G51)

Catalog Number: M00925-1

Introduction

CD11b is a 165-kDa adhesion glycoprotein that associates with the 95-kDa integrin beta2 (CD18) to form the CD11b/CD18 complex, also known as Mac-1 or CR3. CD11b is expressed on activated lymphocytes, monocytes, granulocytes, and a subset of NK cells. CD11b functions in cell-cell and cell-substrate interactions and is a receptor for iC3b, CD54 (ICAM-1), CD102 (ICAM-2) and CD50 (ICAM-3). The OKM1 antibody directed against the CD11b antigen on human monocytes and granulocytes.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development by CapricoBio or are reported in the literature.

Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended dose of this antibody is 0.5ug per 1x10⁶ cells in 100ul of staining volume followed by any fluorochrome conjugated streptavidin. It is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About FASLG

Integrin alpha 1 (ITGA1) chain associates with the beta 1 (ITGB1) chain to form a heterodimer that functions as a dual laminin/collagen receptor in neural cells and hematopoietic cells. ITGA1 has a 206-amino acid I domain in its N-terminal half, followed by 3 divalent cation-binding sites and a C-terminal transmembrane domain with a short cytoplasmic tail. It also has 28 potential N-glycosylation sites. Human ITGA1 was expressed in a mouse fibroblast cell line as a 180-kD protein. ITGA1 is involved in the early remodeling of osteoarthritic cartilage and plays an essential role in the regulation of mesenchymal stem cell proliferation and cartilage production. It also plays an essential role in the regulation of MSC proliferation and cartilage production.

Overview

Product Name	Anti-FasL (human) Monoclonal Antibody (5G51)
Reactive Species	Human
Description	Boster Bio Anti-FasL (human) Monoclonal Antibody (5G51) catalog # M00925-1. Tested in Cell Function, Flow Cytometry applications. This antibody reacts with Human.
Conjugate	Biotin
Application	Cell Function, Flow Cytometry
Clonality	Monoclonal 5G51
Formulation	Liquid. In 0.15M PBS, pH 7.2 containing 1% BSA. Contains no preservatives.
Storage Instructions	+4°C
Host	Mouse

Uniprot ID

P48023

Technical Details

Immunogen	Recombinant human FasL (CD95L; APO-1L; CD178) (extracellular domain) .
Predicted Reactive Species	Bovine, Canine, Chicken, Primate, Sheep, Xenopus, Zebrafish
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG2b,k
Form	Liquid. In 0.15M PBS, pH 7.2 containing 1% BSA. Contains no preservatives.
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Suggested starting dilution is 1:100</p> <p>Suggested dilutions/conditions may not be available for all applications.</p> <p>Optimal conditions must be determined individually for each application.</p>

Anti-FasL (human) Monoclonal Antibody (5G51) (M00925-1) Images



Figure: Schematic structure of recombinant human FasL (extracellular domain).

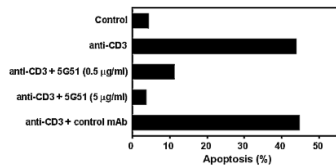


Figure: Inhibition of apoptosis in anti-CD3 stimulated Jurkat T-cells by anti-Fas L. Method: Jurkat JR cells (2x10⁶) were stimulated with plate-bound anti-CD3 antibodies (10

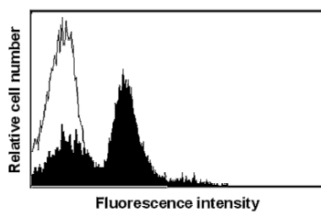
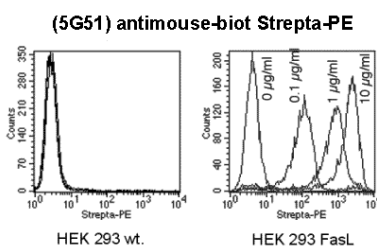


Figure: Flow cytometric detection of FasL expression in stimulated H9 T-cells. Method: H9 T-cells (1x10⁶) were either left untreated (open histogram) or stimulated with 10ng/ml PMA (Prod. No. ALX-445-004)



Figures: Anti-FasL MAb (Prod. No. M00925-1) on HEK 293 wt. and HEK 293-FasL clone cells expressing FasL fusion protein. HEK 293 cells transfected with membrane bound FasL (right figure) were compared with HEK 293 untransfected control cells (left figure). ns

5 Publications Citing This Product

1. PubMed ID: 29079852, Zhou X, Hong T, Yu Q, Nie S, Gong D, Xiong T, Xie M. Sci Rep. 2017 Oct 27;7(1):14247. doi: 10.1038/s41598-017-14178-2. Exopolysaccharides from Lactobacillus plantarum NCU116 induce c-Jun dependent Fas/FasL-mediated apoptosis via TLR2 in mouse inte...
2. PubMed ID: 29619879, Cisplatin-induced oxidative stress stimulates renal Fas ligand shedding
3. PubMed ID: 24604244, Jiang H, Li J, Zhou T, Wang C, Zhang H, Wang H. Int J Mol Med. 2014 May;33(5):1298-304. Doi: 10.3892/ijmm.2014.1684. Epub 2014 Mar 6. Colistin-Induced Apoptosis In Pc12 Cells: Involvement Of The Mitochondrial Apoptotic And Death Receptor Pathways.

Visit bosterbio.com/anti-fasl-human-monoclonal-antibody-5g51-m00925-1-boster.html to see all 5 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

