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Anti-Toso FCMR Antibody

Catalog Number: A09423

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development 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 use of this antibody is ≤ 0.5µg per 1x106 cells in 100µl of staining volume followed by a secondary florescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About FAIM3

Apoptosis is an important process by which normal tissue homeostasis and function are maintained. One of the major signals that regulate this process is mediated by the activation of the Fas receptor by its ligand. This leads to the formation of a Fas-associated death domain (FADD)-containing death-inducing signaling complex and the activation of caspase-8, which in turn activates downstream effector caspases, such as caspase-3 and -7. Recent experiments have shown that overexpression of Toso, a novel regulator of Fas-induced apoptosis in lymphoid cells, in Jurkat cells as well as transgenic mice render these cells resistant to Fas-induced apoptosis but not to TRAIL-induced apoptosis. Furthermore, Toso was found to associate with FADD, suggesting that Toso functions by disrupting the formation of the death-inducing signaling complex.

Overview

Product Name	Anti-Toso FCMR Antibody
Reactive Species	Human
Description	Boster Bio Anti-Toso FCMR Antibody (Catalog # A09423). Tested in ELISA, WB applications. This antibody reacts with Human.
Conjugate	Biotin
Application	ELISA, WB
Clonality	Polyclonal SK7
Formulation	Toso Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Toso antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid

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	repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O60667

Technical Details

Immunogen	Toso antibody was raised against a 13 amino acid synthetic peptide from near the carboxy terminus of human Toso. The immunogen is located within the first 50 amino acids of Toso.
Predicted Reactive Species	Bovine, Mouse, Pig
Cross Reactivity	This antibody is predicted to have no cross-reactivity to ORAI1 or ORAI2.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	Toso Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Toso antibody can be used for detection of Toso by Western blot at 1 - 2 ug/mL. Antibody validated: Western Blot in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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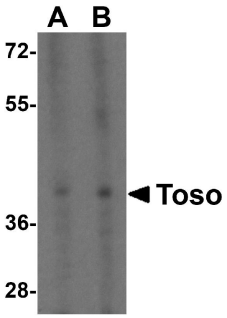
Anti-Toso FCMR Antibody (A09423) Images



Western blot analysis of TOSO in K562 cell lysate with TOSO antibody at (A) 1 and (B) 2 ug/mL.

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