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BOSTER BIOLOGICAL TECHNOLOGY
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Anti-BRUCE BIRC6 Antibody

Catalog Number: A01773

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 BIRC6

Apoptosis, or programmed cell death, is related to many diseases, such as cancer. Apoptosis is triggered by a variety of stimuli including members in the TNF family and can be prevented by the inhibitor of apoptosis (IAP) proteins. IAP proteins form a conserved gene family that binds to and inhibits cell death proteases. BRUCE, also known as BIRC6, is an IAP family member protein with a BIR (baculoviral inhibition of apoptosis protein repeat) domain and a UBCc (ubiquitin-conjugating enzyme E2, catalytic) domain. BRUCE regulates p53 and the mitochondrial pathway of apoptosis by facilitating the degradation of apoptotic proteins such as Caspase-9 and SMAC by ubiquitination.

Overview

Product Name	Anti-BRUCE BIRC6 Antibody
Reactive Species	Human
Description	Boster Bio Anti-BRUCE BIRC6 Antibody (Catalog # A01773). Tested in ELISA, IHC-P applications. This antibody reacts with Human.
Conjugate	Biotin
Application	ELISA, IHC-P
Clonality	Polyclonal SK7
Formulation	BRUCE Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	BRUCE antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

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Host	Rabbit
Uniprot ID	Q9NR09

Technical Details

Immunogen	BRUCE antibody was raised against a 17 amino acid synthetic peptide near the carboxy terminus of human BRUCE. The immunogen is located within amino acids 4760 - 4810 of BRUCE.
Predicted Reactive Species	Mouse
Cross Reactivity	BRUCE antibody is human specific. Multiple isoforms of BRUCE are known to exist.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	BRUCE 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: BRUCE antibody can be used for detection of BRUCE by immunohistochemistry at 5 ug/mL. Antibody validated: Immunohistochemistry 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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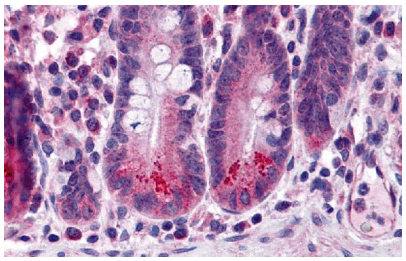
Anti-BRUCE BIRC6 Antibody (A01773) Images



Immunohistochemistry of BRUCE in human small intestine tissue with BRUCE antibody at 5 ug/mL.

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