BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Bit1 PTRH2 Antibody

Catalog Number: A02459

About PTRH2

Adhesion to extracellular matrix regulates cell survival through both integrin engagement and appropriate cell spreading. Anoikis is the molecular mechanism of apoptosis induced by integrin detachment. Bit1 (Bcl-2 inhibitor of transcription 1) was recently identified as being involved in this process. Bit1 is a mitochondrial protein that is released into the cytoplasm upon onset of apoptosis where it forms a complex with AES, a small Groucho/transducin-like enhancer of split (TLE) protein and induces caspase-independent apoptosis. Both AES and TLE proteins are transcriptional co-repressors that play important roles in neurogenesis, segmentation, and sex determination. It has been suggested that Bit1-AES complexes turn off a survival-promoting gene transcription program controlled by TLE. Interestingly, apoptosis of cells transfected with Bit1 and AES could be inhibited if the cells were allowed to attach to fibronectin through the alpha5beta1 integrin suggesting that the Bit1-AES pathway contributing to anoikis is regulated by integrins, and in particular, the alpha5beta1 integrin.

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Overview

Product Name	Anti-Bit1 PTRH2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Bit1 PTRH2 Antibody (Catalog # A02459). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	Bit1 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	Bit1 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9Y3E5

Technical Details

Immunogen	Bit1 antibody was raised against a 15 amino acid synthetic peptide from near the amino-terminus of human Bit1. The immunogen is located within amino acids 20 - 70 of Bit1.

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Predicted Reactive Species	Rat
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Bit1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Bit1 antibody can be used for the detection of Bit1 by Western blot at 1 - 4 ug/mL. Antibody can also be used for immunocytochemistry starting at 2 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in mouse samples; Immunocytochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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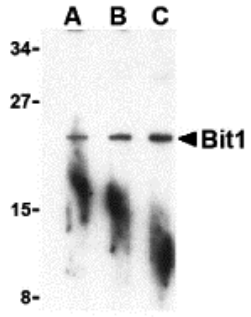
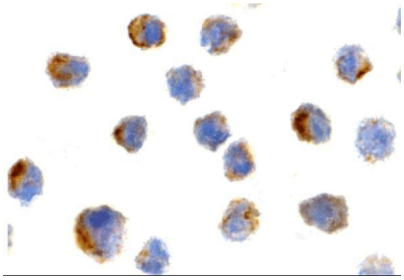
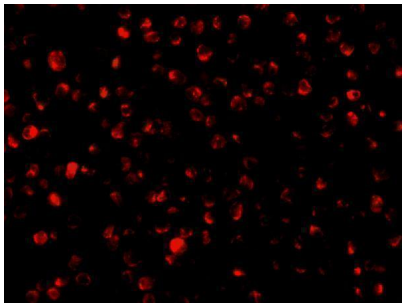
Anti-Bit1 PTRH2 Antibody (A02459) Images



Western blot analysis of Bit1 in A-20 cell lysate with Bit1 antibody at (A) 1, (B) 2, and (C) 4 ug/mL.



Immunocytochemistry of Bit1 in 3T3 cells with Bit1 antibody at 2 ug/mL.



Immunofluorescence of Bit1 in 3T3 cells with Bit1 antibody at 20 ug/mL.

Anti-Bit1 PTRH2 Antibody

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