Datasheet for ABIN499473

anti-PTRH2 antibody (Middle Region)

2 Images

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Overview

Quantity:	0.1 mg
Target:	PTRH2
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTRH2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human Bit1 / Bcl-2 inhibitor of transcription 1 / Peptidyl-tRNA hydrolase 2 (Intermediate Domain) Peptide
Isotype:	IgG
Specificity:	Bit1 antibody was raised against a 16 amino acid peptide from near the center of human Bit1.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	PTRH2
Alternative Name:	PTRH2 / BIT1 (PTRH2 Products)

Target Details

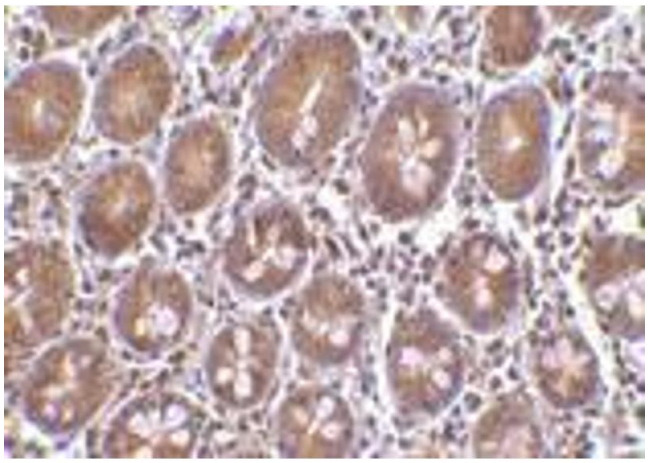
Background:	Adhesion to extracellular matrix regulates cell survival through both integrin engagement and appropriate cell spreading. Anoikis is the molecular mechanism of apop-tosis induced by integrin detachment (1). Bit1 (Bcl-2 inhibitor of transcription 1) was recently identified as being involved in this process (2). 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 (3). It has been suggested that Bit1-AES complexes turn off a survival-promoting gene transcription program controlled by TLE (2). 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 (2).Synonyms: CGI-147, PTH2, Peptidyl-tRNA hydrolase 2 mitochondrial
Gene ID:	51651
NCBI Accession:	NP_057161
UniProt:	Q9Y3E5

Application Details

Application Notes:	ELISA. Western Blot: Bit1 antibody can be used for the detection of Bit1 at 1 - 2 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of Bit1 in human small intestine tissue with Bit1 antibody at 10 µg/ml.

Western Blotting

Image 2. Western blot analysis of Bit1 in Daudi cell lysate with AP30153PU-N Bit1 antibody at (A) 1, (B) 2, and (C) 4 µg/ml.