

Rabbit anti-Human Bit1 Polyclonal Antibody | anti-PTRH2 antibody

Bit1 Antibody (Center)

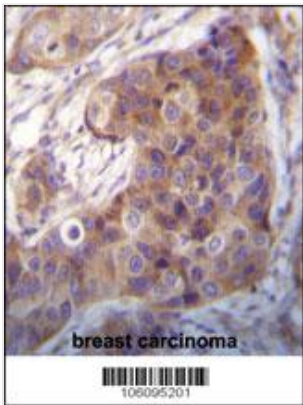
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290018	Rabbit	Human	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

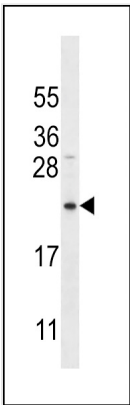
Bit1; Polyclonal Antibody; Bit1 Antibody (Center); Peptidyl-tRNA hydrolase 2; mitochondrial; PTH 2; Bcl-2 inhibitor of transcription 1; PTRH2; BIT1; PTH2; anti-PTRH2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Bit1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 80-110 amino acids from the Central region of human Bit1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	80-110
Sequence Length	179
Applicable Applications for anti-PTRH2 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohiostchemistry)
Bit1 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of Bit1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Bit1 Antibody (K95) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the Bit1 antibody detected the Bit1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-PTRH2 antibody	Adhesion to extracellular matrix regulates cell survival via integrin engagement and cell spreading. Anoikis is the molecular mechanism of apoptosis induced by integrin detachment. A role for Bit1 (Bcl-2 inhibitor of transcription 1) has been identified in this process. Bit1 is a mitochondrial protein 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. AES and TLE proteins are transcriptional co-repressors that play important roles in neurogenesis, segmentation, and sex determination. Bit1-AES complexes may switch off a survival-promoting gene transcription program controlled by TLE. Apoptosis of Bit1/AES transfected cells is inhibited when cells are permitted to attach to fibronectin through the alpha-beta integrin, suggesting that the contribution of the Bit1-AES pathway to anoikis is regulated by integrins.
Product Categories/Family for anti-PTRH2 antibody	Cell Biology; Metabolism
References	Cell 116(5):751-762 (2004). Biochim Biophys Acta. 1692:145-57 (2004). Gene 2000; 249:1-16.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7706351
NCBI GeneID	51651
NCBI Accession #	NP_057161.1
NCBI GenBank Nucleotide #	NM_016077.4
UniProt Accession #	Q9Y3E5; Q9NTE5; B3KUY4
Molecular Weight	19194
NCBI Official Full Name	peptidyl-tRNA hydrolase 2, mitochondrial isoform b
NCBI Official Synonym Full Names	peptidyl-tRNA hydrolase 2
NCBI Official Symbol	PTRH2
NCBI Official Synonym Symbols	2; PTH; BIT1; PTH2; PTH 2; CFAP37; IMNEPD; CGI-147
NCBI Protein Information	peptidyl-tRNA hydrolase 2, mitochondrial
UniProt Protein Name	Peptidyl-tRNA hydrolase 2, mitochondrial

UniProt Gene Name	PTRH2
UniProt Synonym Gene Names	BIT1; PTH2; PTH 2
UniProt Entry Name	PTH2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bit1-antibody-immunohistochemistry-western-blot-elisa/290018>