10320 Camino Santa Fe, Suite G
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BTC Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11669a

Specification

BTC Antibody (N-term) - Product Information

Application	**IF, FC, IHC-P, WB,E**
Primary Accession	P35070
Other Accession	NP_001720.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**19746**
Antigen Region	**17-45**

BTC Antibody (N-term) - Additional Information

Gene ID 685

Other Names
Probetacellulin, Betacellulin, BTC, BTC

Target/Specificity
This BTC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 17-45 amino acids from the N-terminal region of human BTC.

Dilution
IF~~1:10~50
FC~~1:10~50
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
BTC Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

BTC Antibody (N-term) - Protein Information

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Name BTC

Function Growth factor that binds to EGFR, ERBB4 and other EGF receptor family members. Potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells.

Cellular Location
[Betacellulin]: Secreted, extracellular space.

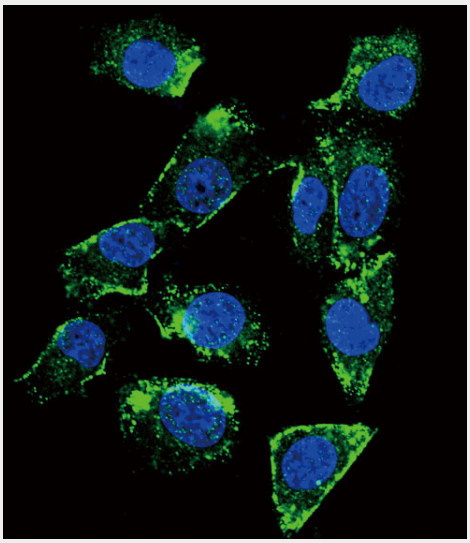
Tissue Location
Synthesized in several tissues and tumor cells. Predominantly expressed in pancreas and small intestine

BTC Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BTC Antibody (N-term) - Images



Confocal immunofluorescent analysis of BTC Antibody (N-term)(Cat#AP11669a) with MDA-MB231 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

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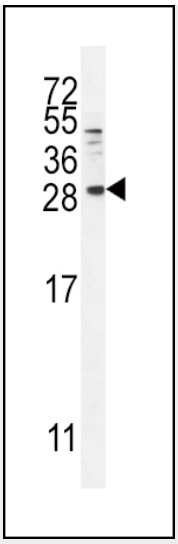
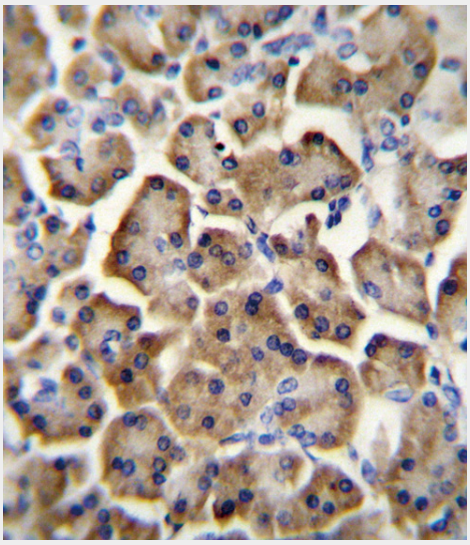


BTC Antibody (N-term) (Cat. #AP11669a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the BTC antibody detected the BTC protein (arrow).



BTC Antibody (N-term) (Cat. #AP11669a)immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of BTC Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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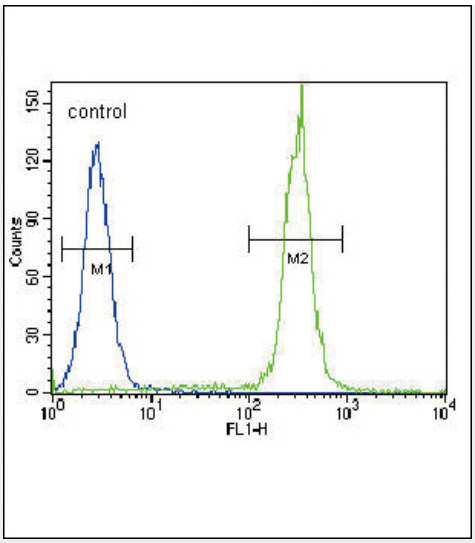

BTC Antibody (N-term) (Cat. #AP11669a) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

BTC Antibody (N-term) - Background

The protein encoded by this gene is a member of the EGF family of growth factors. It is synthesized primarily as a transmembrane precursor, which is then processed to mature molecule by proteolytic events. This protein is a ligand for the EGF receptor.

BTC Antibody (N-term) - References

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Nagaoka, T., et al. J. Mol. Biol. 380(1):83-94(2008)
Revillion, F., et al. Ann. Oncol. 19(1):73-80(2008)
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