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Datasheet for ABIN1672881 Betacellulin ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	Betacellulin (BTC)
Binding Specificity:	AA 32-111
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Betacellulin/BTC
PicoKine™
Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Quantitative
Colorimetric
Expression system for standard: E.coli Immunogen sequence: D32-Y111
Expression system for standard: E.coli Immunogen sequence: D32-Y111
There is no detectable cross-reactivity with other relevant proteins.

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Product D)etails
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Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

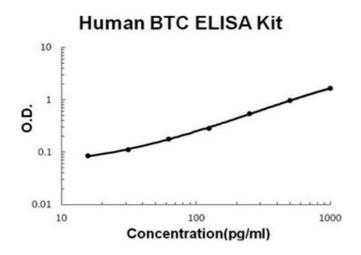
Target Details

Target:	Betacellulin (BTC)
Alternative Name:	BTC (BTC Products)
Background:	Protein 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.
	 Background: Betacellulin, also known as BTC is a protein that in humans is encoded by the BTC gene. This gene is mapped to 4q13.3. 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. It is the growth factor that binds to EGFR, ERBB4 and other EGF receptor family members. This protein is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells. Synonyms: Probetacellulin,Betacellulin,BTC,BTC, Full Gene Name: Probetacellulin Cellular Localisation: Betacellulin: Secreted, extracellular space.
Gene ID:	685
UniProt:	P35070
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Synthesized in several tissues and tumor cells. Predominantly expressed in pancreas and small intestine

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Application Details	
Plate:	Pre-coated
Protocol:	human Betacellulin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for Betacellulin has been
	precoated onto 96-well plates. Standards(E.coli, D32-Y111) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for Betacellulin is added
	subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase
	Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP
	substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to
	produce a blue color product that changed into yellow after adding acidic stop solution. The
	density of yellow is proportional to the human Betacellulin amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL,
	31.3pg/mL, 15.6pg/mL human Betacellulin standard solutions into the pre-coated 96-well plate.
	Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. We recommend that each
	human Betacellulin standard solution and each sample is measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 46, Standard deviation: 2.35, CV(%): 5.1
	 Sample 2: n=16, Mean(pg/ml): 119, Standard deviation: 6.31, CV(%): 5.3
	• Sample 3: n=16, Mean(pg/ml): 725, Standard deviation: 45.68, CV(%): 6.3,
	 Sample 1: n=24, Mean(pg/ml): 47, Standard deviation: 2.73, CV(%): 5.8 Sample 2: n=24, Mean(ng/ml): 124, Standard deviation: 7.60, CV(%): 6.2
	 Sample 2: n=24, Mean(pg/ml): 124, Standard deviation: 7.69, CV(%): 6.2 Sample 3: n=24, Mean(pg/ml): 736, Standard deviation: 58.14, CV(%): 7.9
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

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ELISA

Image 1. Human Betacellulin/BTC PicoKine ELISA Kit standard curve

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