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## Datasheet for ABIN6720370 Betacellulin ELISA Kit



Overview

Quantity:	1 kit
Target:	Betacellulin (BTC)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	7.8 pg/mL - 500 pg/mL
Minimum Detection Limit:	7.8 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum, Tissue Homogenate, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: Betacellulin precursor, BTC, Probetacellulin 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.

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#### Gene Name: BTC

Production: Natural and recombinant rat BTC. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: D32-Y111

#### Target Details

Target:	Betacellulin (BTC)
Alternative Name:	BTC (BTC Products)
Gene ID:	64022
NCBI Accession:	NP_071592
UniProt:	Q9JJM4
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

#### **Application Details**

Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot
	0.1 mL per well of the 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.3pg/mL, 15.6pg/mL,
	7.8pg/mL rat BTC standard solutions into the precoated 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 rat cell culture supernates, serum, plasma(heparin, EDTA), tissue homogenates or
	urine to each empty well. It is recommended that each rat BTC standard solution and each
	sample be measured in duplicate.
	Blood Product Anticoagulant: Heparin Sodium
	ELISA Dilution: 7.8pg/mL-500pg/mL
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only
Handling	
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at

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