

Human Beta cellulin (BTC) ELISA Kit

Catalog No: #EK12038



Package Size: #EK12038-1 48T #EK12038-2 96T

Orders: order@signalwayantibody.com

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Description

Product Name	Human Beta cellulin (BTC) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Accession No.	P35070
Uniprot	P35070
GeneID	685;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.064 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate BTC in samples. An antibody specific for BTC has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyBTC present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for BTC is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of BTC bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Betacellulin(BTC),has been identified in the conditioned medium of cell lines derived from mouse pancreatic beta cell tumors. Betacellulin is a 32-kilodalton glycoprotein that appears to be processed from a larger transmembrane precursor by proteolytic cleavage. The carboxyl-terminal domain of betacellulin has 50 percent sequence similarity with that of rat transforming growth factor alpha. Betacellulin is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells.Watanabe et al.?purified soluble forms of human BTC to homogeneity from the conditioned medium of mouse A9 cells transfected with the human BTC precursor cDNA. Three types of soluble BTC, apparently derived from a single gene, were identified and their biologic activities assessed.

Note: This product is for in vitro research use only