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YB90112Mu01
Betacellulin (bTC)
Organism: Mus musculus (Mouse)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

3th Edition (Revised in February, 2012)

[DESCRIPTION]

Protein Names: Betacellulin

Gene Names: bTC

Size: 100µg

Source: Recombinant

Expression Host: *E.coli*

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.

Subcellular Location: Secreted, extracellular space.

Tissue Specificity: Found in several mouse tissues including kidney, uterus and liver, as well as in beta tumor cell line and MCF-7 cells. It is not detected in the brain.

[PROPERTIES]

Residues: Asp32~Gln118 (Accession # Q05928), with a N-terminal His-tag.

Grade & Purity: >97%, 11.4 kDa as determined by SDS-PAGE reducing conditions.

Form & Buffer: Supplied as lyophilized form in PBS, pH 7.4.

Endotoxin Level: <1.0 EU per 1µg (determined by the LAL method).

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 11.4 kDa



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[PREPARATION]

Reconstitute in PBS.

[STORAGE AND STABILITY]

Storage: Store at 4°C for short time storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

Valid period: 12 months stored at -80°C.

[BACKGROUND]

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHSGSE F-DGNTTRTPE TNGSLCGAP G ENCTGT TPRQ KVKTHF SRCP KQYKHYCIHG
RCRFVVDEQT PSCICEKGYF GARCERVDLF YLQQDRGQ