

Human beta-NGF CLIA Kit | beta-NGF clia kit

beta-NGF (Human) LumiAb ELISA Kit

CATALOG #
AAA318522

REACTIVITY
Human

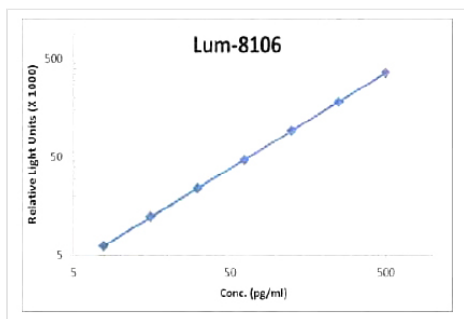
PRODUCT SYNONYMS

beta-NGF; beta-NGF (Human) LumiAb ELISA Kit; Human beta-NGF; Beta-nerve growth factor; beta-NGF clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human Betacellulin ELISA is capable of recognizing both recombinant and naturally produced Human Betacellulin proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	241
Assay Type	Quantitative Sandwich
Sensitivity	4 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for beta-NGF clia kit	Principle of the Assay: The LumiAb Human Betacellulin Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Betacellulin concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human Betacellulin while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a sensitive luminescent reaction to ensue upon substrate addition. When the Peroxide Enhancer solution is added, the reaction catalyzed by peroxidase yields light that is representative of the antigen concentration. After a brief incubation, the microplate can be read with a luminometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Human Betacellulin is a 48 amino acid cytokine protein that is encoded by the BTC gene on chromosome 4 at locus 4q13-q21. The protein Probetacellulin is a 178 residue transmembrane precursor peptide that undergoes proteolytic cleavage, resulting in the mature form of Betacellulin. It has been determined that Betacellulin is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells via its high affinity interaction with the EGF receptor as it contains an EGF-like domain. The small peptide is expressed in several tissue types-predominantly in the pancreas, small intestine and range of tumor cells. The secondary structure of Betacellulin contains a 3 residue alpha helix and 5 beta strands composed of 18 residues.
Product Categories/Family for beta-NGF clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	90110037
NCBI GeneID	4803
UniProt Accession #	P01138
NCBI Official Full Name	Beta-nerve growth factor
NCBI Official Synonym Full Names	nerve growth factor
NCBI Official Symbol	NGF
NCBI Official Synonym Symbols	NGFB; HSAN5; Beta-NGF
NCBI Protein Information	beta-nerve growth factor
UniProt Protein Name	Beta-nerve growth factor
UniProt Gene Name	NGF
UniProt Synonym Gene Names	NGFB; Beta-NGF
UniProt Entry Name	NGF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-clia-kits/beta-ngf/318522>