

Human BMP-2 CLIA Kit | BMP-2 clia kit

BMP-2 (Human) LumiAb ELISA Kit

CATALOG #
AAA318523

REACTIVITY
Human

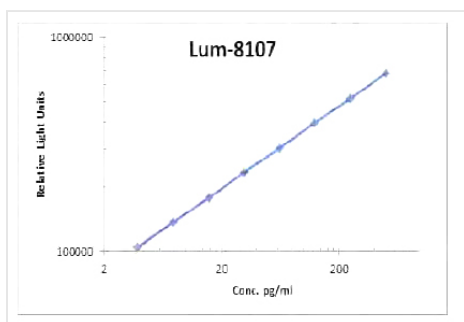
PRODUCT SYNONYMS

BMP-2; BMP-2 (Human) LumiAb ELISA Kit; Human BMP-2; Bone morphogenetic protein 2A; BMP-2 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human beta-NGF ELISA is capable of recognizing both recombinant and naturally produced Human beta-NGF proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity.
Sequence Length	396
Assay Type	Quantitative Sandwich
Sensitivity	8 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP-2 clia kit	Principle of the Assay: The LumiAb Human beta-NGF Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human beta-NGF 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 beta-NGF 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 beta-NGF, also known as Nerve Growth Factor beta, is a 241 amino acid cytokine protein encoded by the NGFB gene at locus 1p13.1 on chromosome 1. After initial synthesis of the premature beta-NGF peptide, it is subject to proteolytic processing and cleavage, thus separating the 18 residue signal sequence, the 103 residue propeptide and the 120 residue mature beta-NGF protein. beta-NGF is a secreted protein with sympathetic as well as embryonic nerve growth stimulating activity which homodimerizes and is incorporated into a larger complex that is involved in the regulation of growth and differentiation of sympathetic and certain sensory neurons. Mutations in this gene have often been associated with hereditary sensory and autonomic neuropathy type 5 (HSAN5) and dysregulation of the NGFB's expression can lead to allergic rhinitis.
Product Categories/Family for BMP-2 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	115068
NCBI GeneID	650
UniProt Accession #	P12643
NCBI Official Full Name	Bone morphogenetic protein 2
NCBI Official Synonym Full Names	bone morphogenetic protein 2
NCBI Official Symbol	BMP2
NCBI Official Synonym Symbols	BDA2; BMP2A; SSFSC
NCBI Protein Information	bone morphogenetic protein 2
UniProt Protein Name	Bone morphogenetic protein 2
UniProt Gene Name	BMP2
UniProt Synonym Gene Names	BMP2A; BMP-2; BMP-2A
UniProt Entry Name	BMP2_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/bmp-2/318523>