

Human FGF-Basic ELISA Kit | FGF-Basic elisa kit

FGF-Basic (Human) OmniKine ELISA Kit

CATALOG #
AAA315608

REACTIVITY
Human

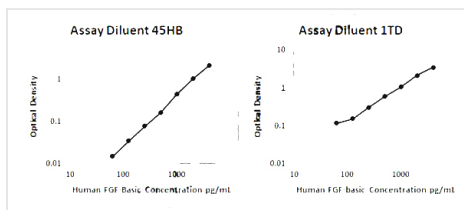
PRODUCT SYNONYMS

FGF-Basic; FGF-Basic (Human) OmniKine ELISA Kit; Heparin-binding growth factor 2; HBGF-2; Basic fibroblast growth factor; bFGF; FGFB; FGF-Basic elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The OmniKine™ Human FGF-Basic ELISA is capable of recognizing both recombinant and naturally produced Human FGF-Basic proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity.
Form/Format	12 x 8-Well Microstrips
Sequence Length	288
Assay Type	Quantitative Sandwich
Samples	Supernatants, Sera and Plasma
Sensitivity	63-4000 pg/ml
Detection Method	Colorimetric 450 nm
Subtype	None
Preparation and Storage	Store entire kit at 4 degree C until use.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FGF-Basic elisa kit	Background: Human FGF-Basic or Fibroblast Growth Factor 2, also known commonly as HBGF-2 or Heparin-Binding Growth Factor 2, is a 288 amino acid cytokine protein encoded by the FGF2 gene at locus 4q26 on chromosome 4. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. The monomeric FGF-Basic protein interacts with many other proteins such as CSPG4 and FGFBP1 while also believed to be found in a complex with FGFBP1, FGF1 and FGF2. Expression patterns for this protein typically take place in granulosa and cumulus cells, but FGF2 is also found in hepatocellular carcinoma cells (not non-cancerous liver tissue). Several experiments were performed on FGF-Basic to determine its pH and temperature properties. It has been recently determined that FGF-Basic retains almost half of its activity after treatment at pH 2.0 for 3 hours at 20 degree C, while being inactivated after 3 minutes at 60 degree C or 1 minute at 80 degree C. Principle of the Assay: The OmniKine™ Human FGF-Basic ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human FGF-Basic concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" EnzymeLinked 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 FGF-Basic 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 colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	153285461
NCBI GeneID	2247
NCBI Accession #	NP_001997.5
NCBI GenBank Nucleotide #	NM_002006.4
UniProt Accession #	P09038; O00527; P78443; Q16443; Q5PY50; Q7KZ11; Q7KZ72; Q9UC54; Q9UCS5; Q9UCS6; A4LBB8
Molecular Weight	21,203 Da
NCBI Official Full Name	fibroblast growth factor 2 34 kDa isoform
NCBI Official Synonym Full Names	fibroblast growth factor 2
NCBI Official Symbol	FGF2
NCBI Official Synonym Symbols	BFGF; FGFB; FGF-2; HBGF-2
NCBI Protein Information	fibroblast growth factor 2
UniProt Protein Name	Fibroblast growth factor 2
UniProt Gene Name	FGF2
UniProt Synonym Gene Names	FGFB; FGF-2; bFGF; HBGF-2

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-elisa-kits/fgf-basic/315608>