

Human FGF2 ELISA Kit | FGF2 elisa kit

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CATALOG # AAA105865	REACTIVITY Human	APPLICATIONS ELISA
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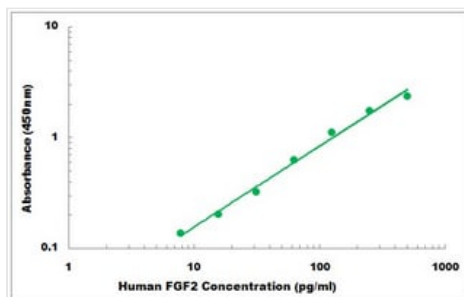
PRODUCT SYNONYMS

FGF2; Human FGF2 ELISA Kit; FGFB; Fibroblast growth factor 2; FGF-2; Basic fibroblast growth factor; bFGF; Heparin-binding growth factor 2; HBGF-2; FGF2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human FGF2 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human FGF2 proteins within the range of 7.8 pg/ml - 500 pg/ml.
Sequence Length	288
Samples	Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates
Sensitivity	The minimum detectable dose of Human FGF2 is typically less than 4 pg/ml.
Applicable Applications for FGF2 elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FGF2 elisa kit

Principle of the assay: The Human FGF2 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human FGF2 in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates. This assay employs an antibody specific for Human FGF2 coated on a 96-well plate. Standards and samples are pipetted into the wells and FGF2 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human FGF2 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of FGF2 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

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.

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
NCBI Official Synonym Full Names	fibroblast growth factor 2 (basic)
NCBI Official Symbol	FGF2
NCBI Official Synonym Symbols	BFGF; FGFB; FGF-2; HBGF-2
NCBI Protein Information	fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor bFGF
UniProt Protein Name	Fibroblast growth factor 2
UniProt Gene Name	FGF2
UniProt Synonym Gene Names	FGFB; FGF-2; bFGF; HBGF-2
UniProt Entry Name	FGF2_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.