

Chicken Basic Fibroblast Growth Factor ELISA Kit | bFGF/FGF2 elisa kit

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CATALOG #
AAA101847

REACTIVITY
Chicken

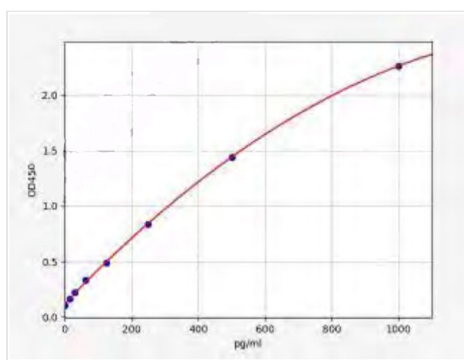
PRODUCT SYNONYMS

Basic Fibroblast Growth Factor; Chicken Basic Fibroblast Growth Factor ELISA Kit; bFGF/FGF2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Chicken
Specificity	Specifically recognize FGF2, no obvious cross reaction with other analogues
Sequence Length	157
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for bFGF/FGF2 elisa kit	Background: FGF-2 is a member of the fibroblast family involved in bone healing, cartilage repair, bone repair, and nerve regeneration. FGF-2 is also a mitotic promoter that accelerates cell proliferation. FGF-2 regulates immune processes by specifically targeting tyrosine kinase receptors and activating the FGF/FGFR signaling pathway. For example, FGF-2 is involved in the JAK-STAT signaling pathway to regulate cartilage metabolism and also activates ERK signaling to promote cartilage regeneration. FGF-2 is also a known carcinogen in GBM, which contributes to glioma growth and vascularization. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti FGF2 antibody was precoated onto the 96-well plate. The biotin conjugated anti FGF2 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with FGF2 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of FGF2 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	183087
NCBI GeneID	2247
Molecular Weight	21,203 Da
NCBI Official Full Name	basic fibroblast growth factor, partial
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
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.

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Online datasheet: <https://stage.aaabiotech.com/bfgf-fgf2-chicken-elisa-kits/basic-fibroblast-growth-factor/101847>