

Human Fibroblast growth factor 2 (FGF2) ELISA Kit

Catalog No: #EK12319



Package Size: #EK12319-1 48T #EK12319-2 96T

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Description

Product Name	Human Fibroblast growth factor 2 (FGF2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	BFGF; FGFB; HBGF-2; basic fibroblast growth factor bFGF fibroblast growth factor 2 heparin-binding growth factor 2 prostatopin
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:12.35-1000 pg/mL

Sensitivity:4.67 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate FGF2 in samples. An antibody specific for FGF2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyFGF2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for FGF2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of FGF2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**FGF basic is one of at least 22 mitogenic proteins of the FGF family, which show 35 - 60% amino acid conservation.Unlike other FGFs, FGF acidic and basic lack signal peptides and are secreted by an alternate pathway. Storage pools within the cell or on cell surface heparan sulfate proteoglycans (HSPG) are likely. The predicted 18 kDa FGF basic isoform can be located in both the cytoplasm and the nucleus and is presumed to be the form secreted. Transcription from alternate start sites produces 21 - 23 kDa forms found only in the nucleus. High and low molecular weight human FGF basic targets the expression of different genes when expressed in NIH-3T3 cells.The 18 kDa rat sequence has 98% aa identity with mouse, and 96 - 97% identity with human, bovine and sheep FGF basic.

Note: This product is for in vitro research use only