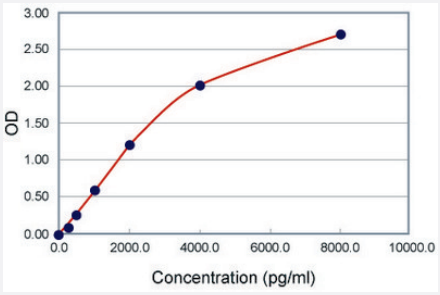
FGF2 (Human) ELISA Kit

Catalog # KA0527 Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	FGF2 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human FGF2.
Suitable Sample	Cell Culture Supernatant, Plasma, Serum
Sample Volume	100 uL
Label	HRP-conjugate
Detection Method	Colorimetric
Assay Type	Quantitative
Intra-Assay	6.39%
Inter-Assay	4.69%
Spiking Recovery	Serum: 94.00%, Plasma: 102.00%, Cell Culture Supernatant: 108.00%
Calibration Range	78 to 8000 pg/mL
Limit of Detection	78 pg/mL
Reactivity	Human

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Regulation Status	For research use only (RUO)
Quality Control Testing	Standard curve The standard curve is for the purpose of illustration only and should not be used to calculate unknown s. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store the kit at 4°C.

Applications

- Quantification

Gene Info — FGF2

Entrez GeneID	2247
Gene Name	FGF2
Gene Alias	BFGF, FGFB, HBGF-2
Gene Description	fibroblast growth factor 2 (basic)
Omim ID	134920
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. 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. [provided by RefSeq
Other Designations	basic fibroblast growth factor bFGF|fibroblast growth factor 2|heparin-binding growth factor 2|prostatropin

Publication Reference

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- Formononetin, a novel FGFR2 inhibitor, potently inhibits angiogenesis and tumor growth in preclinical models.

  Xiao Yu Wu, Hao Xu, Zhen Feng Wu, Che Chen, Jia Yun Liu, Guan Nan Wu, Xue Quan Yao, Fu Kun Liu, Gang Li, Liang Shen

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- Evaluation of Wound Closure Activity of Nigella sativa, Melastoma malabathricum, Pluchea indica, and Piper sarmentosum Extracts on Scratched Monolayer of Human Gingival Fibroblasts.

  Mas Rizal Ab Rahman, Fathilah Abdul Razak, Marina Mohd Bakri

  Evid Based Complement Alternat Med 2014 Nov; 2014:190342.

- Cell migration is essential for sustained growth of keratinocyte colonies: the roles of transforming growth factor-alpha and epidermal growth factor.

  Barrandon Y, Green H.

  Cell 1987 Sep; 50(7):1131.

- Physiological effects of transforming growth factor in the newborn mouse.

  Tam JP.

  Science 1985 Aug; 229(4714):673.

- Human transforming growth factor-alpha causes precocious eyelid opening in newborn mice.

  Smith JM, Sporn MB, Roberts AB, Derynck R, Winkler ME, Gregory H.

  Nature 1985 Jun; 315(6019):515.

Pathway

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Regulation of actin cytoskeleton

Disease

- Alzheimer disease
- Arthritis

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- Birth Weight
- Cardiovascular Diseases
- Chorioamnionitis
- Cleft Lip
- Cleft Palate
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Retinopathy
- Edema
- Fetal Membranes
- Gastrointestinal Diseases
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Head and Neck Neoplasms
- Kidney Failure
- Leukemia
- Meningeal Neoplasms
- Meningioma
- Metabolic Syndrome X
- Myocardial Infarction
- Myopia
- Neoplasm Recurrence
- Neoplasms
- Neovascularization

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- Obstetric Labor
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pre-Eclampsia
- Premature Birth

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