

ARG82287 Porcine FGF basic ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82287 Porcine FGF basic ELISA Kit is an Enzyme Immunoassay kit for the quantification of Porcine FGF basic in serum and plasma.
Tested Reactivity	Pig
Tested Application	ELISA
Specificity	Not react with following recombinant porcine proteins: Adiponectin, ApoAI, BMP1, BMP2, BMP3, BMP4, BMP5, BMP7, CCL2, CCL4, CCL5, CRP, HSP27, HGF, IL1 beta, IL1 RA, IL2, IL4, IL5, sFGF BASICR, IL8, IL10, IL12, IL13, IL15, IL17C, IL21, IL23, IFN gamma, MMP2, MMP9, IL2R, PDGF, serpin E1, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TLR3, TLR9, TNF alpha, TNF RI, TNF RII, VEGF and VEGF R1.
Target Name	FGF basic
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum and plasma.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 6% Inter-Assay CV: 9%
Alternate Names	FGF-2; Fibroblast growth factor 2; bFGF; FGFB; Heparin-binding growth factor 2; BFGF; HBGF-2; Basic fibroblast growth factor

Application Instructions

Assay Time	~ 3 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

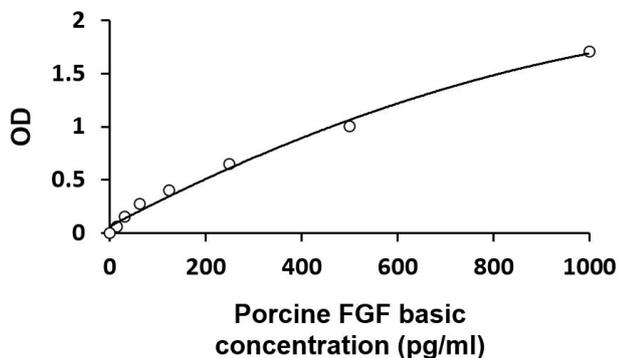
Bioinformation

Gene Symbol	FGF2
Gene Full Name	fibroblast growth factor 2 (basic)
Background	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, Jul 2008]

Function	Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. [UniProt]
Highlight	Related products: FGF basic antibodies ; FGF basic ELISA Kits ; FGF basic recombinant proteins ; Related news: The role of HDGF in tumor angiogenesis New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Phosphorylation at Tyr-215 regulates FGF2 unconventional secretion. Several N-termini starting at positions 94, 125, 126, 132, 143 and 162 have been identified by direct sequencing. [UniProt]
Cellular Localization	Secreted. Nucleus. Note=Exported from cells by an endoplasmic reticulum (ER)/Golgi-independent mechanism. Unconventional secretion of FGF2 occurs by direct translocation across the plasma membrane. Binding of exogenous FGF2 to FGFR facilitates endocytosis followed by translocation of FGF2 across endosomal membrane into the cytosol. Nuclear import from the cytosol requires the classical nuclear import machinery, involving proteins KPNA1 and KPNB1, as well as CEP57. [UniProt]

Images



ARG82287 Porcine FGF basic ELISA Kit standard curve image

ARG82287 Porcine FGF basic ELISA Kit results of a typical standard run with optical density reading at 450 nm.