Datasheet for ABIN5510538

FGF1 ELISA Kit

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1 Image

Overview

Quantity:	96 tests
Target:	FGF1
Binding Specificity:	AA 2-155
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human FGF1
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: E.coli Immunogen sequence: A2-D155
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Characteristics:	Tissue Specificity: Predominantly expressed in kidney and brain. Detected at much lower levels in heart and skeletal muscle. .

Target Details

Target:	FGF1

Target Details

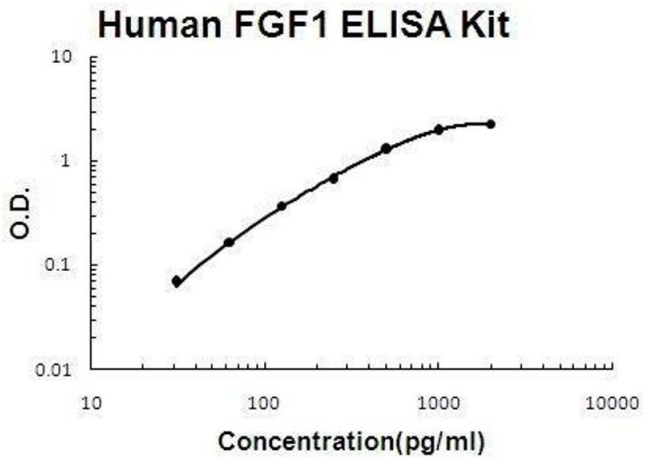
Alternative Name:	FGF1 (FGF1 Products)
Background:	Protein Function: Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. . Background: Heparin-binding growth factor 1 is a protein that in humans is encoded by the FGF1 gene. The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. The FGF1 gene was mapped to chromosome 5q31.3-q33.2 by in situ hybridization. Synonyms: Fibroblast growth factor 1,FGF-1,Acidic fibroblast growth factor,aFGF,Endothelial cell growth factor,ECGF,Heparin-binding growth factor 1,HBGF-1,FGF1,FGFA, Full Gene Name: Fibroblast growth factor 1 Cellular Localisation: Secreted. Cytoplasm. Cytoplasm, cell cortex. Cytoplasm, cytosol. Nucleus. Lacks a cleavable signal sequence. Within the cytoplasm, it is transported to the cell membrane and then secreted by a non-classical pathway that requires Cu(2+) ions and S100A13. Secreted in a complex with SYT1 (By similarity). Binding of exogenous FGF1 to FGFR facilitates endocytosis followed by translocation of FGF1 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 LRRC59..
UniProt:	P05230
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)
Expiry Date:	12 months



ELISA

Image 1. Human FGF1 PicoKine ELISA Kit standard curve

