

### Recombinant human FGF2 protein (Active) ab9596

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#### 製品の詳細

製品名	Recombinant human FGF2 protein (Active)
生理活性	Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected <b>ED</b> <sub>50</sub> is ≤ 0.1 ng/ml, corresponding to a specific activity of ≥ 1 x 10 <sup>7</sup> units/mg.
精製度	≥ 95 % SDS-PAGE. ≥ 95% HPLC Sterile filtered
エンドトキシン・レベル	< 1.000 Eu/μg
発現系	Escherichia coli
アクセッション番号	<b><u>P09038</u></b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	AAGSITTLP ALPEDGGSGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHI KLQLQAEERG VVSIGVCAN RYLAMKEDGR LLASKCVTDE CFFFERLESN NYNTYRSRKY TSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS
予測される分子量	17 kDa
領域	135 to 288

#### 特性

Our **Abpromise guarantee** covers the use of **ab9596** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Cell Differentiation
	SDS-PAGE
	Cellular Activation
	HPLC
製品の状態	Lyophilized

## 前処理および保存

### 保存方法および安定性

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituents: 0.0605% Tris, 0.87% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

### 再構成

Please reconstitute this product in 500ul 5mM Tris, pH7.6.

## 関連情報

### 機能

Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Can induce angiogenesis (PubMed:23469107).

### 組織特異性

Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue.

### 配列類似性

Belongs to the heparin-binding growth factors family.

### 翻訳後修飾

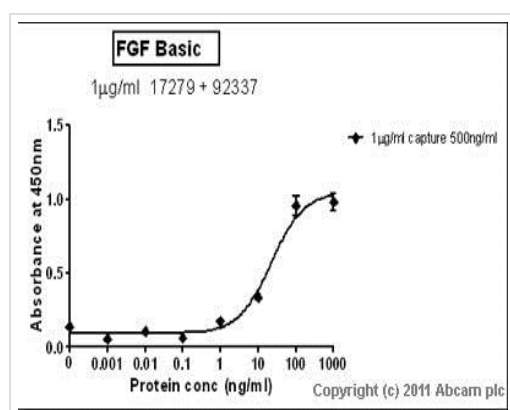
Phosphorylation at Tyr-215 regulates FGF2 unconventional secretion.

Several N-termini starting at positions 94, 125, 126, 132, 143 and 162 have been identified by direct sequencing.

### 細胞内局在

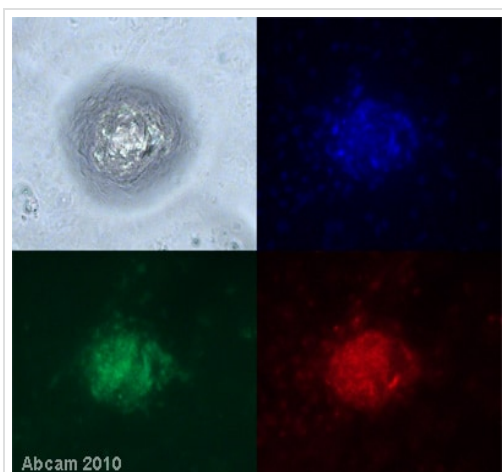
Secreted. Nucleus. Exported from cells by an endoplasmic reticulum (ER)/Golgi-independent mechanism. Unconventional secretion of FGF2 occurs by direct translocation across the plasma membrane. Binding of exogenous FGF2 to FGFR facilitates endocytosis followed by translocation of FGF2 across endosomal membrane into the cytosol. Nuclear import from the cytosol requires the classical nuclear import machinery, involving proteins KPNA1 and KPNB1, as well as CEP57.

## 画像



Standard Curve for FGF basic (Analyte: **FGF basic protein (Active) (ab9596)**); dilution range 1pg/ml to 1ug/ml using Capture Antibody **Mouse monoclonal [AS24] to FGF basic (ab17279)** at 1ug/ml and Detector Antibody **Rabbit monoclonal [EP1735] to FGF basic (ab92337)** at 0.5ug/ml.

Sandwich ELISA - Recombinant human FGF2 protein (ab9596)



Cell differentiation - Recombinant human FGF2 protein (ab9596)

This image is courtesy of Sun Yung, Centro de Investigación Príncipe Felipe.

Human embryonic stem cells (H9) were differentiated both as embryoid bodies and monolayer cultures (on Matrigel) using a protocol described in Kennedy et al., 2007. BMP-4, FGF-basic (ab9596) and VEGF ([ab9571](#)) were sequentially added to the media to direct differentiation. These images were taken at day 8, where cell adhesion antigens CD31 ([ab32457](#) in green) and CD34 ([ab8536](#) in red) are abundant and represent primitive haematopoietic cells within the culture. Dapi staining is shown in blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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