

Recombinant human FGF2 protein (Active) ab9596

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描述

产品名称	重组人FGF2蛋白(Active)
生物活性	Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED₅₀ is ≤ 0.1 ng/ml, corresponding to a specific activity of ≥ 1 x 10 ⁷ units/mg.
纯度	≥ 95 % SDS-PAGE. ≥ 95% HPLC Sterile filtered
内毒素水平	< 1.000 Eu/μg
表达系统	Escherichia coli
Accession	<u>P09038</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	AAGSITTLP ALPEDGGSGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHI KLQLQAEERG VVSIGVCAN RYLAMKEDGR LLASKCVTDE CFFFERLESN NYNTYRSRKY TSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS
预测分子量	17 kDa
氨基酸	135 to 288

技术指标

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.

应用	Cell Differentiation SDS-PAGE Cellular Activation HPLC
形式	Lyophilized

制备和贮存

稳定性和存储

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.

复溶

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

常规信息

功能

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).

组织特异性

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

序列相似性

Belongs to the heparin-binding growth factors family.

翻译后修饰

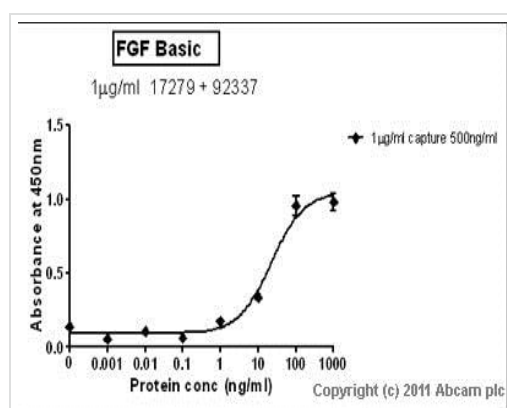
Phosphorylation at Tyr-215 regulates FGF2 unconventional secretion.

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

细胞定位

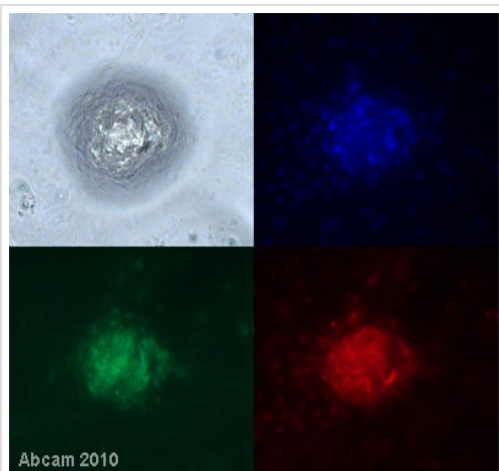
Secreted. Nucleus. Exported from cells by an endoplasmic reticulum (ER)/Golgi-independent mechanism. Unconventional secretion of FGF2 occurs by direct translocation across the plasma membrane. Binding of exogenous FGF2 to FGFR facilitates endocytosis followed by translocation of FGF2 across endosomal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

图片



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.

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