abcam

## Product datasheet

# Recombinant human FGF2 protein ab61845

3 Images

### Description

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| **Product name** | Recombinant human FGF2 protein |
| **Biological activity** | Specific activity of 3MIU/mg |
| **Purity** | > 95 % SDS-PAGE.<br>Purity greater than 95% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE. |
| **Expression system** | Escherichia coli |
| **Protein length** | Protein fragment |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | MPA LPEDGGSGAF PPGHFKDPKR LYCKNGGFFL RIHPDGRVDG VREKSDPHIK LQLQAEERGV VSIKGVCANR YLAMKEDGRL LASKCVTDEC FFFERLESNN YNTYRSRKYT SWYVALKRTG QYKLGSKTGP GQKAILFLPM SAKS |

### Specifications

Our **Abpromise guarantee** covers the use of **ab61845** in the following tested applications.

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

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| **Applications** | SDS-PAGE<br>Functional Studies |
| **Form** | Lyophilized |
| **Additional notes** | Add 0.1% HSA or BSA for long term storage at -20°C. |

### Preparation and Storage

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| **Stability and Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.<br>Constituent: 0.164% Sodium phosphate<br>This product is an active protein and may elicit a biological response in vivo, handle with caution. |

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| **Reconstitution** | It is recommended to reconstitute the lyophilized product with sterile water to a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions. |

## General Info

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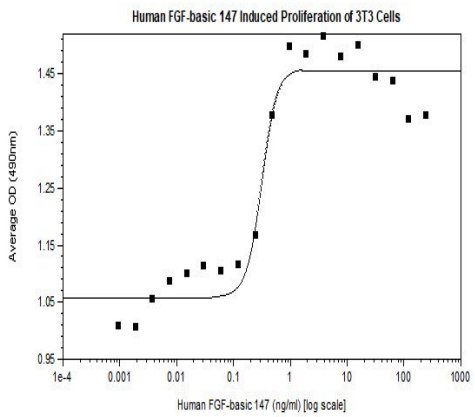
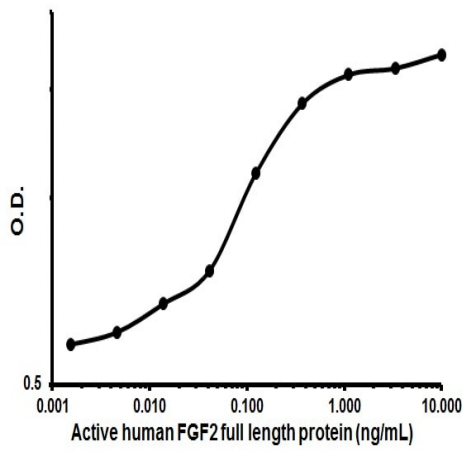
| **Function** | Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Can induce angiogenesis (PubMed:23469107). |
| **Tissue specificity** | Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue. |
| **Sequence similarities** | Belongs to the heparin-binding growth factors family. |
| **Post-translational modifications** | Phosphorylation at Tyr-215 regulates FGF2 unconventional secretion.<br>Several N-termini starting at positions 94, 125, 126, 132, 143 and 162 have been identified by direct sequencing. |
| **Cellular localization** | 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. |

## Images



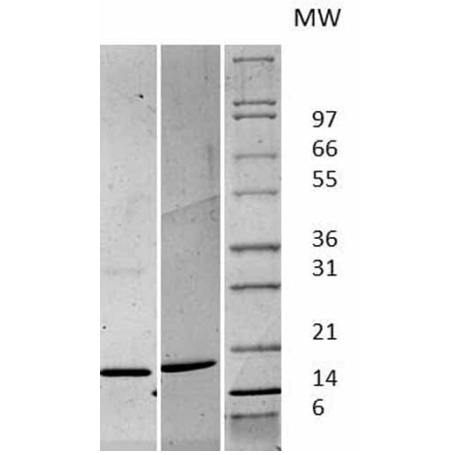

Functional Studies - Recombinant human FGF2 protein (ab61845)

Functional analysis of ab61845




Cellular activation - Recombinant human FGF2 protein (ab61845)

Dose-dependent proliferation of mouse BALB/c 3T3 cells with ab61845. Assays were carried out in triplicate.




Western blot - Recombinant human FGF2 protein (ab61845)

ab61845 used in Western Blot. Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel stained with Coomassie Blue. Human FGF basic has a predicted MW of 16.5 kDa.

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

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