

Product datasheet

Recombinant mouse FGF2 protein ab129033

[2 Images](#)

Description

Product name	Recombinant mouse FGF2 protein
Biological activity	The activity was determined by the stimulation of HUVE cells. The ED ₅₀ for this effect is = 0.1ng/ml corresponding to a specific activity of = 1 x 10 ⁷ units/mg.
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P15655</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	ALPEDGGAAFPPGHFKDPKRLYCKNGGFFLRHPDGRVD GVREKSDPHVK LQLQAEERGVSISIKGVCANRYLAMKEDGRLLASKCVTEE CFFFERLESNN YNTYRSRKYSSWYVALKRTGQYKLGSKTGPGQKAILFLPM SAKS
Amino acids	11 to 154

Specifications

Our **Abpromise guarantee** covers the use of **ab129033** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term.

Constituent: 99% PBS

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

Reconstitution

ab129033 can be reconstituted with ddH₂O or 50 mM acetic acid at 50 µg/mL. This solution can be diluted into other buffered solutions or stored frozen for future use. Avoid repeated freeze-thaw cycles.

General Info

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.

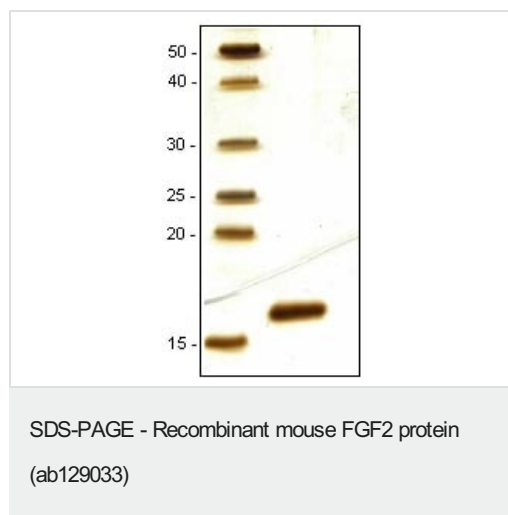
Post-translational modifications

Phosphorylation at Tyr-215 regulates FGF2 unconventional secretion. Several N-termini starting at positions 94, 125, 126, 132, 143 and 162 have been identified by direct sequencing.

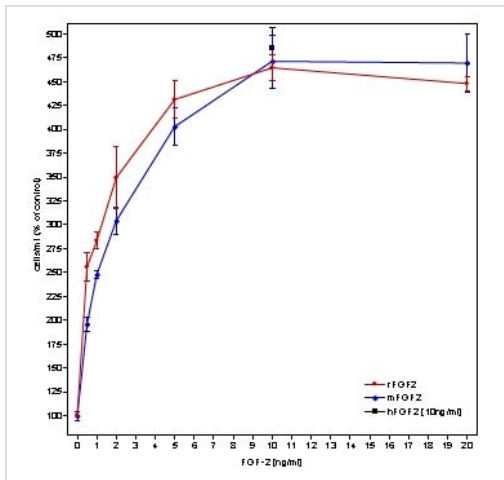
Cellular localization

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



15% SDS-PAGE analysis of ab129033 with subsequent Silver staining.



Dose-dependent stimulation of cell proliferation in HUVE cells by recombinant rat FGF2 and ab129033 (mFGF2). Values are the means (\pm SD) of triplicate determinations and expressed as percentage of control.

Functional Studies - Recombinant mouse FGF2 protein (ab129033)

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

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