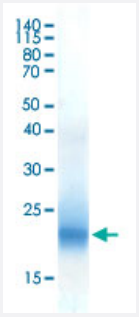
Bioactive Sm Size

FGF2 (Human) Recombinant Protein

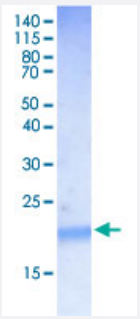
Catalog # P5824 Size 100 ug, 50 ug, 10 ug

Applications



Western Blot (Recombinant protein)

Western blot analysis of FGF2 (Human) Recombinant Protein (Cat # P5824) using protein specific antibody.



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human FGF2 (146 a.a.) partial recombinant protein with ERHV-His tag expressed in Barley grain (*H ordeum vulgare*).

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Host	Plants
Theoretical MW (kDa)	17.8
Form	Lyophilized
Preparation Method	Barley grain (*Hordeum vulgare*) expression system
Purification	Chromatography
Concentration	100 ug/mL
Purity	> 95% by SDS-PAGE
Endotoxin Level	Endotoxin level is less than 0.005ng per ug protein (0.05EU/ug) as measured by turbidimetric kinetic assay
Activity	The bioactivity of recombinant human FGFB is determined by measuring the dose dependent effect on the proliferation of 3T3 cells. The ED_{50} for this effect using FGF basic 146 is typically < 0.4 ng/mL, which corresponds to a specific activity > 2.5 $x10^6$ U/mg.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Storage Buffer	Lyophilized from PBS pH 7.2
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterile water to a concentration of no less than 100 ug/mL, store at -20°C. Fo r long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- Western Blot (Recombinant protein)

  Western blot analysis of FGF2 (Human) Recombinant Protein (Cat # P5824) using protein specific antibody.
- SDS-PAGE

Gene Info — FGF2

Entrez GeneID	2247

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Protein Accession#	NM_002006
Gene Name	FGF2
Gene Alias	BFGF, FGFB, HBGF-2
Gene Description	fibroblast growth factor 2 (basic)
Omim ID	134920
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. [provided by RefSeq
Other Designations	basic fibroblast growth factor bFGF|fibroblast growth factor 2|heparin-binding growth factor 2|prostatropin

Pathway

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Regulation of actin cytoskeleton

Disease

- Alzheimer disease
- Arthritis
- Birth Weight
- Cardiovascular Diseases
- Chorioamnionitis
- Cleft Lip

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- Cleft Palate
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Retinopathy
- Edema
- Fetal Membranes
- Gastrointestinal Diseases
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Head and Neck Neoplasms
- Kidney Failure
- Leukemia
- Meningeal Neoplasms
- Meningioma
- Metabolic Syndrome X
- Myocardial Infarction
- Myopia
- Neoplasm Recurrence
- Neoplasms
- Neovascularization
- Obstetric Labor
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms

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- Pre-Eclampsia
- Premature Birth

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