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Rabbit Anti-bFGF antibody

SL0217R

Product Name:	bFGF
Chinese Name:	碱性成纤维细胞生长因子/FGF2抗体
Alias:	Basic fibroblast growth factor; FGF basic; FGF-basic; BFGF; FGF-2; FGF B; FGF2; FGF2 basic; FGFB; Fibroblast growth factor 2 (basic); HBGF 2; HBGF-2; HBGF2; HBGH 2; HBGH2; Heparin binding growth factor 2 precursor; Prostatropin; FGF2_HUMAN.
文献引用 PubMed :	**Specific References(12)**|SL0217R has been referenced in 12 publications. **[IF=4.65]**Pan, Ruo-Lang, et al. "Delta-like 1 serves as a new target and contributor to liver fibrosis down-regulated by mesenchymal stem cell transplantation." Journal of Biological Chemistry 286.14 (2011): 12340-12348.**Mouse**. PubMed:21239501 **[IF=2.89]**Liu, Kai-Jun, et al. "Analysis of olfactory ensheathing glia transplantation-induced repair of spinal cord injury by electrophysiological, behavioral, and histochemical methods in rats." Journal of molecular neuroscience 41.1 (2010): 25-29.**Human**. PubMed:19669603 **[IF=1.93]**Chen, Bo-Yu, et al. "Altered TGF-β2 and bFGF expression in scleral desmocytes from an experimentally-induced myopia guinea pig model." Graefes Archive for Clinical and Experimental Ophthalmology (2013): 1-12.**Pig, Guinea Pig**. PubMed:23381656 **[IF=1.69]**Zhao, Zhan-Zheng, et al. "Effects of recombinant human endostatin on peritoneal angiogenesis in peritoneal dialysis rats." Nephrology 16.6 (2011): 599-606.**Rat**.

	PubMed:21457400 [IF=1.69]Gao, Dan, et al. "Effect of peritoneal dialysis on expression of vascular endothelial growth factor, basic fibroblast growth factor and endostatin of the peritoneum in peritoneal dialysis patients." Nephrology 16.8 (2011): 736-742. **WB;Human**. PubMed:21771176 [IF=1.93]Lee, Hye Sook, et al. "Anti-neovascular effect of chondrocyte-derived extracellular matrix on corneal alkaline burns in rabbits." Graefes Archive for Clinical and Experimental Ophthalmology (2014): 1-11.**IHC-P;Rabbit**. PubMed:24789464 [IF=3.49]Turgut, Burak, et al. "Topical infliximab for the suppression of wound healing following experimental glaucoma filtration surgery." Drug Design, Development and Therapy 8 (2014): 421-429.**IHC-P;Rabbit**. PubMed:24851041 [IF=1.96]Turgut, Burak, et al. "Impact of trastuzumab on wound healing in experimental glaucoma surgery." Clinical & Experimental Ophthalmology (2014).**IHC-P;Rabbit**. PubMed:24801440 [IF=2.83]Sun, Fei, et al. "Structural integrity, immunogenicity and biomechanical evaluation of rabbit decelluarized tracheal matrix." Journal of Biomedical Materials Research Part A (2014).**IHC-P;Rabbit**. PubMed:25044712 [IF=0.37]Shkurupy, V. A., et al. "In Vitro Effects of Nanosized Diamond Particles on Macrophages." Bulletin of Experimental Biology and Medicine (2015): 1-4.**Mouse**. PubMed:25705036 [IF=5.62]He, Ting, et al. "Tumor cell-secreted angiogenin induces angiogenic activity of endothelial cells by suppressing miR-542-3p." Cancer Letters (2015).**WB;Human**. PubMed:26272182 [IF=1.64]Eren, Kenan, et al. "The Suppression of Wound Healing Response with Sirolimus and Sunitinib Following Experimental Trabeculectomy in a Rabbit Model." Current Eye Research (2016): 1-10.**IHC-P;Rabbit**. PubMed:25897981
Organism Species:	Rabbit
Clonality:	Polyclonal

React Species:	Human,Mouse,Rat,Chicken,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestIF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	18kDa
Cellular localization:	The nucleusSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human bFGF:143-250/288
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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, Jul 2008]. **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. **Subunit:** Monomer. Homodimer. Interacts with FGFR1, FGFR2, FGFR3 and FGFR4. Affinity between fibroblast growth factors (FGFs) and their receptors is increased by heparan sulfate glycosaminoglycans that function as coreceptors. Interacts with CSPG4, FGFBP1 and TEC. Found in a complex with FGFBP1, FGF1 and FGF2. **Subcellular Location:** Secreted. Nucleus. Note=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.

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

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.

Similarity:
Belongs to the heparin-binding growth factors family.

SWISS:
P15655

Gene ID:
2247

Database links:

Entrez Gene: 2247Human

Entrez Gene: 14173Mouse

Entrez Gene: 54250Rat

Omim: 134920Human

SwissProt: P09038Human

SwissProt: P15655Mouse

SwissProt: P13109Rat

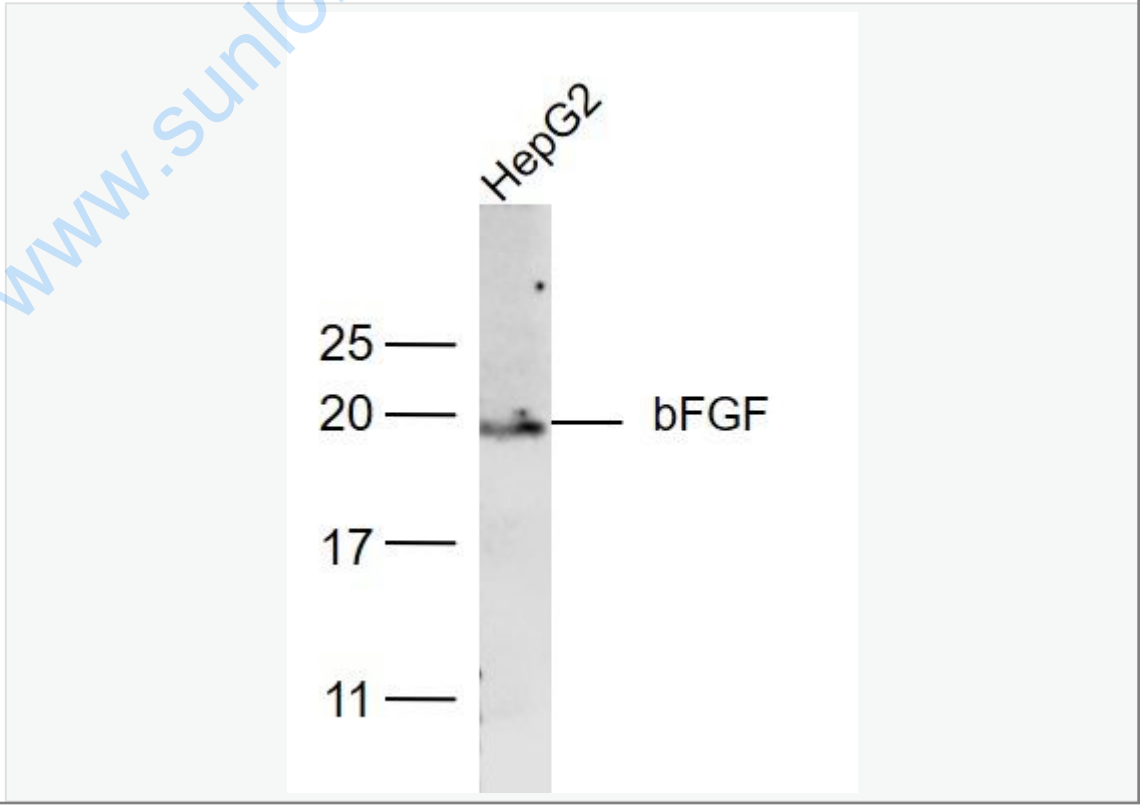
Unigene: 284244Human

Unigene: 473689Mouse

Unigene: 31808Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Growth factors and hormones（Growth Factor and Hormones）

	(b- FGF)主要分布于垂体、脑和神经组织及视网膜、肾上腺、胎盘等，尤以垂体含量最高。 FGF2(basic fibroblast growth factor)碱性成纤维细胞生长因子是由endothelial cells及平滑肌细胞合成并对合成细胞有促分裂效应的多肽分子,具有强烈的血管生成作用，参与血管生成、组织修复、神经系统的发育等 。FGF2在体外，能刺激细胞增殖，细胞迁移，诱导纤溶酶原激活物及胶原酶活性。是能与肝素结合的促分裂剂。 FGF家族参与一系列重要的生理功能：胚胎发育、细胞生长、组织的修复、器官的形成、Tumour的浸润和生长等。
Picture:	

Sample:

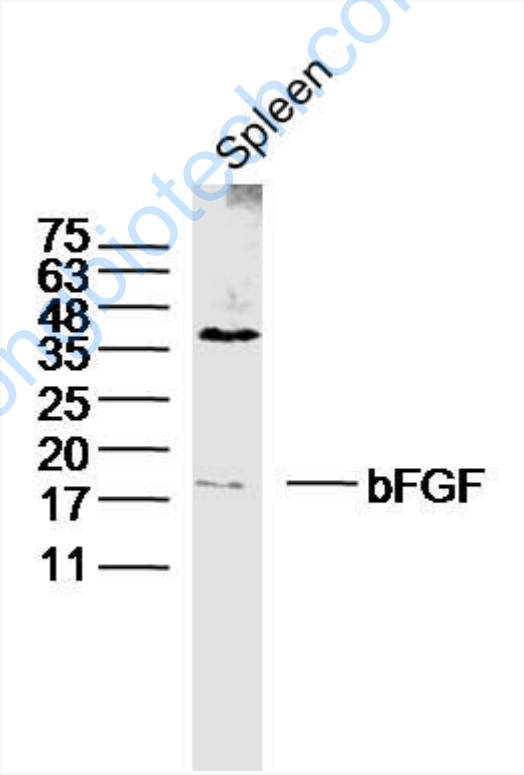
HepG2(Human) Cell Lysate at 30 ug

Primary: Anti-bFGF (SL0217R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 18 kD

Observed band size: 18 kD



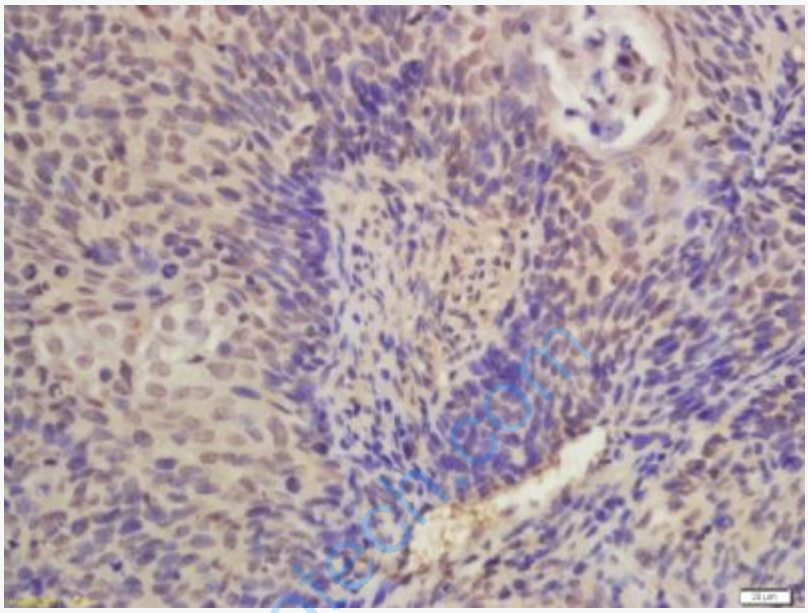
Sample: Spleen (Mouse) Lysate at 40 ug

Primary: Anti- bFGF (SL0217R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 17 kD

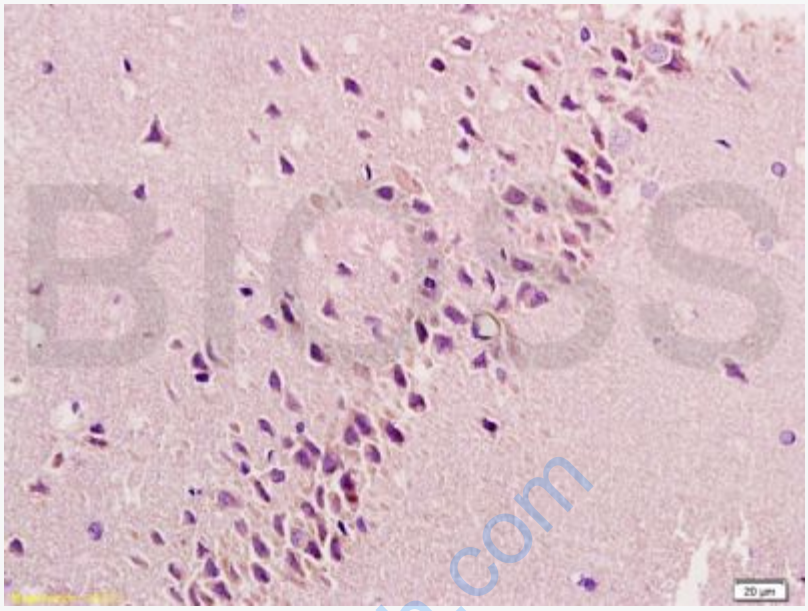
Observed band size: 18 kD



Tissue/cell: human cervical cancer tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

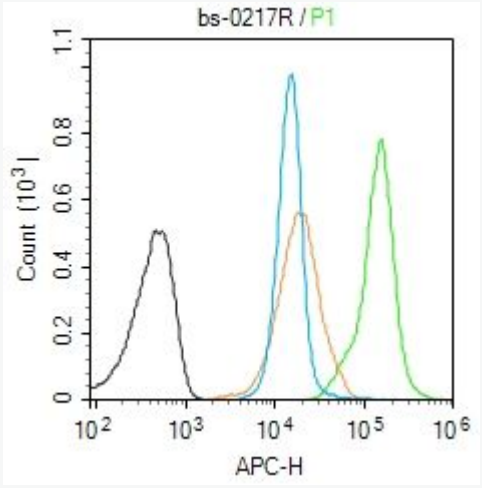
Incubation: Anti-bFGF Polyclonal Antibody, Unconjugated(SL0217R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-bFGF Polyclonal Antibody, Unconjugated(SL0217R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



	Blank control (Black line): Molt4 (Black). Primary Antibody (green line): Rabbit Anti-bFGF antibody (SL0217R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.