

FGF2 antibody

Catalog No: #38109

Package Size: #38109-1 50ul #38109-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

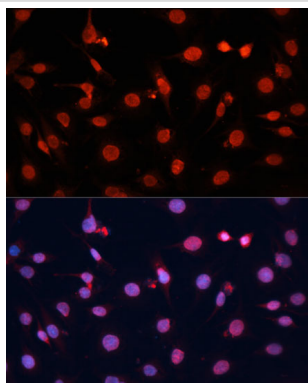
Description

Product Name	FGF2 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total FGF2 protein.
Immunogen Type	Peptide
Immunogen Description	N term -peptide of human FGF2.
Conjugates	Unconjugated
Target Name	FGF2
Other Names	FGF2;BFGF;FGFB;HBGF-2;
Accession No.	Swiss-Prot#: P09038NCBI Gene ID: 2247
SDS-PAGE MW	31kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

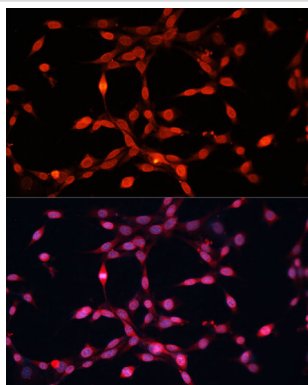
Application Details

WB□1:500 - 1:2000IHC□1:50 - 1:200IF□1:50 - 1:200

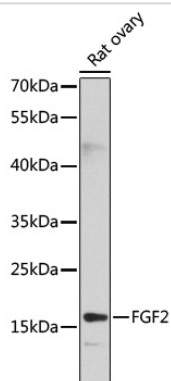
Images



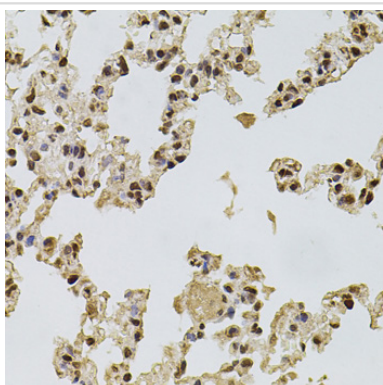
Immunofluorescence analysis of C6 cells using FGF2
 Polyclonal antibody at dilution of 1:100 (40x lens). Blue: DAPI
 for nuclear staining.



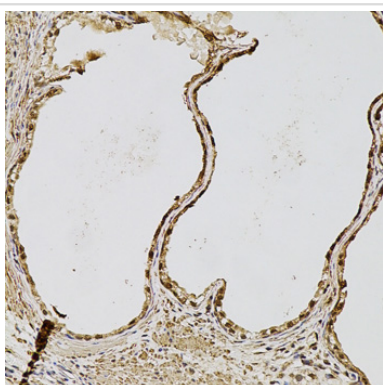
Immunofluorescence analysis of NIH-3T3 cells using FGF2 Polyclonal antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



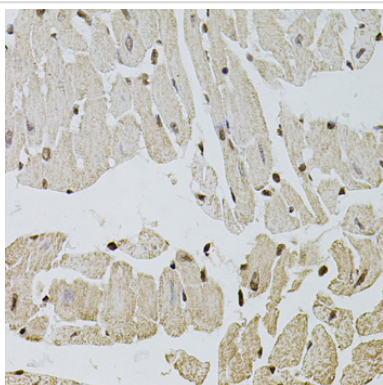
Western blot analysis of extracts of rat ovary, using FGF2 antibody at 1:1000 dilution.



Immunohistochemistry of paraffin-embedded rat lung using FGF2 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human prostate using FGF2 antibody at dilution of 1:100 (20x lens).



Immunohistochemistry of paraffin-embedded mouse heart using FGF2 antibody at dilution of 1:100 (40x lens).

Background

Fibroblast growth factors are a family of broad-spectrum growth factors influencing a plethora of cellular activities. The interaction of at least 23 ligands, 4 receptors and multiple coreceptors provides a dramatic complexity to a signaling system capable of effecting a multitude of responses (1,2). Basic fibroblast growth factor (bFGF or FGF2), initially identified as a mitogen with prominent angiogenic properties, is now recognized as a multifunctional growth factor (3). It is clear that bFGF produces its biological effects in target cells by signaling through cell-surface FGF receptors. bFGF binds to all four FGF receptors. Ligand binding induces receptor dimerization and autophosphorylation, allowing binding and activation of cytoplasmic downstream target proteins, including FRS-2, PLC and Crk (4,5). The FGF signaling pathway appears to play a significant role not only in normal cell growth regulation but also in tumor development and progression (6). Acidic FGF (aFGF or FGF1) is another extensively investigated protein of the FGF family. aFGF shares 55% DNA sequence homology with bFGF. These two growth factors are ubiquitously expressed and exhibit a wide spectrum of similar biological activities with quantitative differences likely due to variation in receptor affinity or binding (7).

Published Papers

el et al., KGF-2 Regulates STAP-2 β Mediated Signal Transducer and Activator of Transcription 3 Signaling and Reduces Skin Scar Formation. In J Invest Dermatol

on 2022 Jul by Qingde Zhou, Jianxiang Gong, et al.. PMID:34999107, , (2022)

[PMID:34999107](#)

Wu Yang;Weiwen Zhu;Yunfei Yang;Minkang Guo;Husun Qian;Weiqian Jiang;Yu Chen;Chengjie Lian;Zijie Xu;Haobo Bai;Tingmei Chen;Jian Zhang et al., Exosomal miR-100-5p inhibits osteogenesis of hBMSCs and angiogenesis of HUVECs by suppressing the BMP2/Smad1/5/9 signalling pathway., (2021)

[PMID:34256859](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.