10320 Camino Santa Fe, Suite G
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FGF2 / Basic FGF Antibody (clone 3D9)

Mouse Monoclonal Antibody
Catalog # ALS15991

Specification

FGF2 / Basic FGF Antibody (clone 3D9) - Product Information

Application	**IF, IHC, WB**
Primary Accession	P09038
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**31kDa KDa**

FGF2 / Basic FGF Antibody (clone 3D9) - Additional Information

Gene ID 2247

Other Names
Fibroblast growth factor 2, FGF-2, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2, HBGF-2, FGF2, FGFB

Target/Specificity
Human FGF2 / BFGF

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
FGF2 / Basic FGF Antibody (clone 3D9) is for research use only and not for use in diagnostic or therapeutic procedures.

FGF2 / Basic FGF Antibody (clone 3D9) - Protein Information

Name FGF2

Synonyms FGFB

Function
Acts as a ligand for FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:8663044). Also acts as an integrin ligand which is required for FGF2 signaling (PubMed:28302677). Binds to integrin ITGAV:ITGB3 (PubMed:28302677). Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration (PubMed:8663044, PubMed:28302677). Functions as a potent mitogen in vitro (PubMed:<a href="http://www.uniprot.org/citations/1721615"

target="_blank">1721615, PubMed:3964259, PubMed:3732516). Can induce angiogenesis (PubMed:23469107, PubMed:28302677). Mediates phosphorylation of ERK1/2 and thereby promotes retinal lens fiber differentiation (PubMed:29501879).

Cellular 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 (PubMed:20230531). Binding of exogenous FGF2 to FGFR facilitates endocytosis followed by translocation of FGF2 across endosomal membrane into the cytosol (PubMed:22321063). Nuclear import from the cytosol requires the classical nuclear import machinery, involving proteins KPNA1 and KPNB1, as well as CEP57 (PubMed:22321063)

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

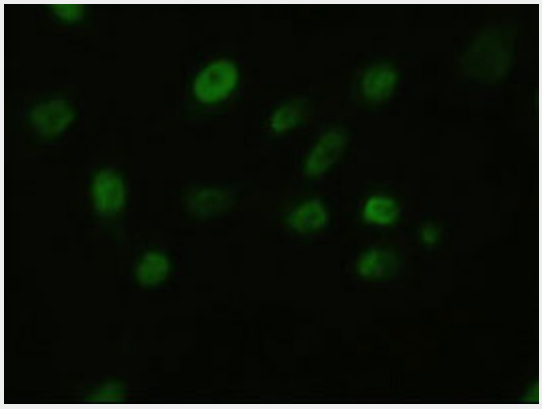
Volume
50 µl

FGF2 / Basic FGF Antibody (clone 3D9) - Protocols

Provided below are standard protocols that you may find useful for product applications.

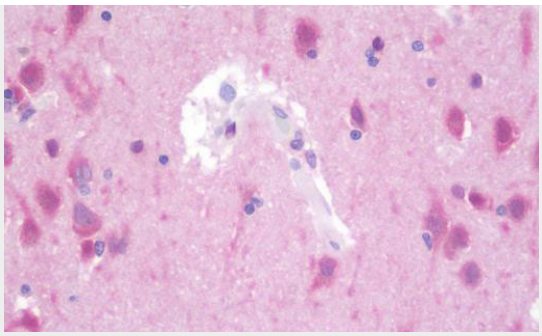
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FGF2 / Basic FGF Antibody (clone 3D9) - Images

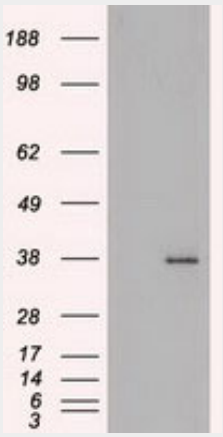


Anti-BFGF mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...

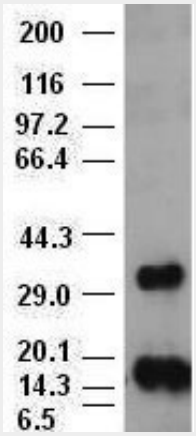
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Anti-FGF2 / Basic FGF antibody IHC staining of human brain, cortex.



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BFGF...



bFGF antibody (3D9) at 1:1000 + Recombinant human bFGF.

FGF2 / Basic FGF Antibody (clone 3D9) - Background

Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro.

FGF2 / Basic FGF Antibody (clone 3D9) - References

Abraham J.A.,et al.Cold Spring Harb. Symp. Quant. Biol. 51:657-668(1986).
Abraham J.A.,et al.EMBO J. 5:2523-2528(1986).
Prats H.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:1836-1840(1989).
Goshima N.,et al.Nat. Methods 5:1011-1017(2008).
Hillier L.W.,et al.Nature 434:724-731(2005).

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