

# FGF-2 Polyclonal Antibody

Catalog # AP73732

## Product Information

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|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">P09038</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 30770                  |

## Additional Information

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|--------------------|------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 2247                                                                                                                         |
| Other Names        | FGF2; FGFB; Fibroblast growth factor 2; FGF-2; Basic fibroblast growth factor; bFGF; Heparin-binding growth factor 2; HBGF-2 |
| Dilution           | WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A       |
| Format             | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.                                                |
| Storage Conditions | -20°C                                                                                                                        |

## Protein Information

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|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | FGF2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Synonyms          | FGFB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Function          | Acts as a ligand for FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed: <a href="#">8663044</a> ). Also acts as an integrin ligand which is required for FGF2 signaling (PubMed: <a href="#">28302677</a> ). Binds to integrin ITGAV:ITGB3 (PubMed: <a href="#">28302677</a> ). Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration (PubMed: <a href="#">28302677</a> , PubMed: <a href="#">8663044</a> ). Functions as a potent mitogen in vitro (PubMed: <a href="#">1721615</a> , PubMed: <a href="#">3732516</a> , PubMed: <a href="#">3964259</a> ). Can induce angiogenesis (PubMed: <a href="#">23469107</a> , PubMed: <a href="#">28302677</a> ). Mediates phosphorylation of ERK1/2 and thereby promotes retinal lens fiber differentiation (PubMed: <a href="#">29501879</a> ). |
| 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)

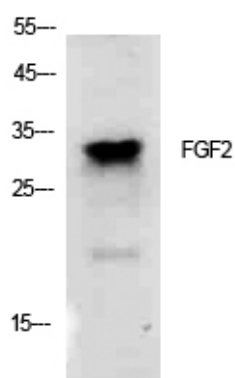
## Tissue Location

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

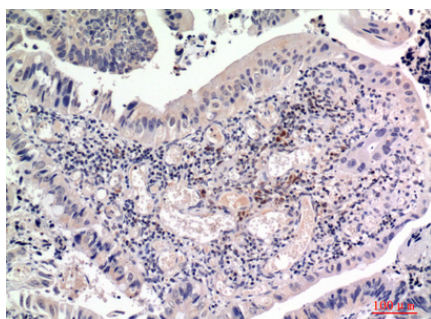
## Background

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:[3732516](#), PubMed:[3964259](#)). Can induce angiogenesis (PubMed:[23469107](#), PubMed:[28302677](#)).

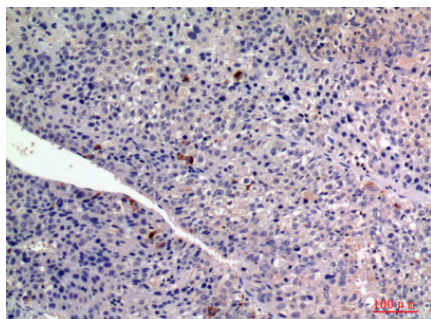
## Images



Western Blot analysis of K562 cells using FGF-2 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-colon-cancer, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-liver-cancer, antibody was diluted at 1:100

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