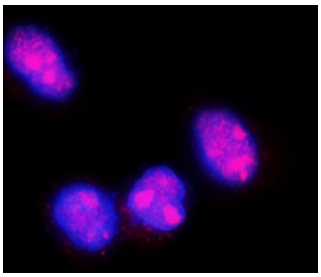
FGF2 Antibody / Fibroblast growth factor 2 (R30108)

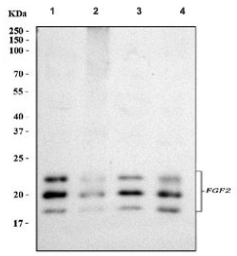
Catalog No.	Formulation	Size
R30108	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

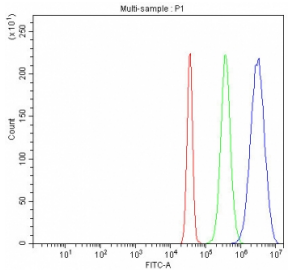
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P09038
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Immunohistochemistry (FFPE) : 2-5ug/ml ELISA : 0.1-0.5ug/ml (human protein tested)
Limitations	This FGF2 antibody is available for research use only.



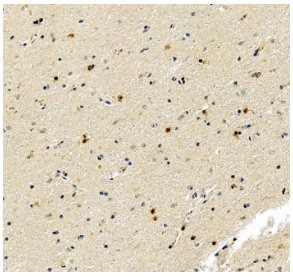
Immunofluorescent staining of FFPE human SiHa cells with FGF2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HeLa, 2) SK-O-V3, 3) SiHa and 4) U87 MG cell lysate with FGF2 antibody. Predicted molecular weight: 17-31 kDa (multiple isoforms).



Flow cytometry testing of fixed and permeabilized human SiHa cells with FGF2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= FGF2 antibody.



IHC staining of FFPE human brain tissue with FGF2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

FGF2 (Fibroblast growth factor 2) is a multifunctional growth factor belonging to the fibroblast growth factor family, which regulates cell growth, survival, differentiation, and angiogenesis. Also known as basic fibroblast growth factor (bFGF), FGF2 exerts its biological activity by binding to FGF receptors and activating downstream signaling pathways such as MAPK, PI3K-AKT, and PLCÃŽÂ³. A FGF2 antibody is widely used to study processes involving tissue repair, embryonic development, and vascular biology.

FGF2 is expressed in a variety of tissues and exists in several isoforms generated by alternative translation initiation. These isoforms differ in their cellular localization and biological function, with the low molecular weight form being secreted and associated with paracrine signaling, while high molecular weight isoforms function primarily in the nucleus. Using a FGF2 antibody allows researchers to examine these isoforms, track their cellular distribution, and evaluate their contributions to signaling networks.

Functionally, FGF2 plays a critical role in angiogenesis by promoting endothelial cell proliferation and migration, making it a key regulator in wound healing and tissue regeneration. It also supports neuronal survival, bone formation, and stem cell maintenance. Aberrant expression of FGF2 has been implicated in cancer, cardiovascular disease, and inflammatory conditions, highlighting its relevance in both health and disease. Employing a FGF2 antibody helps advance research into these pathways and their therapeutic targeting.

NSJ Bioreagents provides a high-quality FGF2 antibody validated for applications such as western blot, immunohistochemistry, and ELISA. Selecting a FGF2 antibody from NSJ Bioreagents ensures reliable results and reproducibility in studies of growth factor biology, angiogenesis, and tissue development.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the FGF2 antibody may be required

due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 143-288) was used as the immunogen for this FGF2 antibody.

Storage

After reconstitution, the FGF2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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