Revision 3

Store at -20C

#20102

Basic FGF Antibody

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	18, 22, 24	Rabbit	#P09038	2247

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Basic FGF Antibody recognizes endogenous levels of total basic FGF protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro155 of human basic FGF protein. Antibodies are purified by protein A and peptide affinity chromatography.

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, four 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 variations in receptor affinity or binding (7).

Background References

1. Powers, C.J. et al. (2000) *Endocrine-Related Cancer* 7, 165-197.
2. Bansal, R. (2002) *Dev. Neurosci.* 24, 35-46.
3. Morrison, R.S. et al. (1994) *J. Neurooncol.* 18, 207-216.
4. Kouhara, H. et al. (1997) *Cell* 89, 693-702.
5. Mohammadi, M. et al. (1991) *Mol. Cell. Biol.* 11, 5068-5078.
6. Bikfalvi, A. (1995) *Eur. J. Cancer* 31A, 1101-1104.
7. Ledoux, D. et al. (1992) *Prog. Growth Factor Res.* 4, 107-120.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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Limited Uses

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