

## Technical Data Sheet

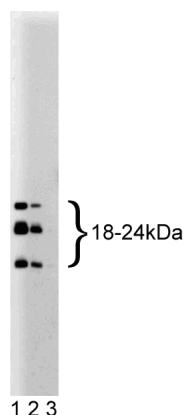
## Purified Mouse Anti-basic FGF

## Product Information

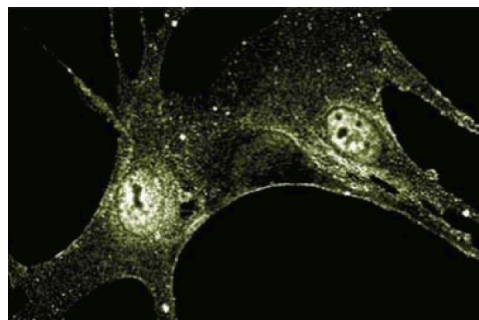
<b>Material Number:</b>	<b>610073</b>
<b>Size:</b>	150 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	6/basic FGF
<b>Immunogen:</b>	Human bFGF aa. 1-155
<b>Isotype:</b>	Mouse IgG2a
<b>Reactivity:</b>	QC Testing: Human
	Tested in Development: Mouse, Rat, Dog, Chicken
<b>Target MW:</b>	18-24 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

## Description

Basic Fibroblast Growth Factor (bFGF) is a family member of the cell-differentiating and growth promoting factors. Basic FGF exists as multiple isoforms ranging from 18-24kDa that are derived from a single mRNA species under unique translational conditions. The 18kDa isoform is primarily cytosolic, but is also secreted and may form reservoirs of bFGF in the extracellular matrix. In contrast, the larger isoforms are predominantly nuclear. At the cellular level, bFGF is a potent mitogen and promotes cell survival by inhibiting apoptosis. At the tissue level, it is involved in wound repair and induces angiogenesis. In addition, bFGF is a significant target in cancer research because it is over-expressed in some cancers and may enhance a tumor's metastatic potential.



*Western blot analysis for basic FGF on a HeLa cell lysate (Human cervical epitheloid carcinoma; ATCC CCL-2). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the Mouse Anti-basic FGF antibody.*



*Immunofluorescence staining of human fibroblasts.*

## Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Application Notes

## Application

Western blot	Routinely Tested
Immunoprecipitation	Tested During Development
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development

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## Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.

## References

Estival A, Monzat V, Miquel K. Differential regulation of fibroblast growth factor (FGF) receptor-1 mRNA and protein by two molecular forms of basic FGF. Modulation of FGFR-1 mRNA stability. *J Biol Chem.* 1996; 271(10):5663-5670. (Biology)

Fox JC, Shanley JR. Antisense inhibition of basic fibroblast growth factor induces apoptosis in vascular smooth muscle cells. *J Biol Chem.* 1996; 271(21):12578-12584. (Biology)

Peng H, Moffett J, Myers J. Novel nuclear signaling pathway mediates activation of fibroblast growth factor-2 gene by type 1 and type 2 angiotensin II receptors. *Mol Cell Biol.* 2001; 12(2):449-462. (Biology: Western blot)

Stachowiak MK, Moffett J, Joy A. Regulation of bFGF gene expression and subcellular distribution of bFGF protein in adrenal medullary cells. *J Cell Biol.* 1994; 127(1):203-223. (Biology)

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