

Product code	71-513
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium
Immunogen	bovine brain basic FGF
Isotype	mouse IgG1ĸ
Reactivity	bovine, rat, mouse and human basic FGF. Dose not react with bovine acidic FGF.
Special notes	
Application	1. Western blotting: (1µg/ml)
	2. Immunofluorescence staining: (1µg/ml)
	3. Biological neutralization of FGF-2: 0.3 µg antibody/ml effects 50% inhibition
	of the stimulatory activity of 1 ng bovine basic FGF in cultures of bovine
	capillary endothelial cells. (Ref.1) Recommended using 71-511 anti-bFGF
	antibody (bFM-1)
	4. Radioimmunoassay: using this antibody at 1µg/ml, a standard curve for
	basic FGF over the range 2 to 50 ng/ml is generated. (Ref.1) Recommended
	using 71-511 anti-bFGF antibody (bFM-1)
Background	Basic FGF (bFGF / FGF-2) plays an important role in the regulation of cell
	survival, cell division, cell differentiation and cell migration.
	Molecular mass: 17.3 kDa. Five isoforms of FGF2 were recognized. The AUG-
	initiated 18 kDa low molecular weight (LMW) isoform is cytosolic and can be
	secreted by direct translocation across the plasma membrane. The four high
	molecular weight (HMW) FGF2 (22 kDa, 22.5 kDa, 24 kDa, and 34 kDa),
	produced by utilizing the CUG codons and expressed as N-terminal elongations
	of the LMW isoform, is commonly thought to localize to the nucleus.
Data Link	UniProtKB <u>P03969</u> (FGF2_BOVIN)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC	
PROCEDURES. NOT FOR MILITARY USE.	

Anti-Basic FGF /FGF-2 antibody, mouse monoclonal (bFM-2), neutralizing



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Data Images: 71-513 Anti-Basic FGF (FGF-2) antibody, mouse monoclonal (bFM-2) , neutralizing



Fig.1 Western Blot of FGF-2

Applied sample; 1. 0.1µg of recombinant FGF-2 Primary antibody; 1µg/ml of anti-FGF-2 antibody Recommended using 71-513 anti-basic FGF antibody (bFM-2)





BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp https://www.bioacademia.co.jp/en/





Fig.3 IF of FGF-2

HeLa cells are fixed with 4% PFA, permeabilized with 0.25 % Triton X-100.
Anti-FGF-2 antibody was used at 1µg/ml and as the secondary antibody, goat anti-rabbit IgG antibody (Alexa Fluor 488 conjugated) was used at 1/1,000 dilution.
Left: FGF-2 in green with Alex Fluor 488
Right: Nuclear DNA was labelled in blue with DAPI.

Related product:

71-511 Anti-Basic FGF (FGF-2) antibody, mouse monoclonal (bFM-1), neutralizing

Reference: This product has been used in the following publication.

1. Matsuzaki K, *et al.* Monoclonal antibodies against heparin-binding growth factor II/basic fibroblast growth factor that block its biological activity: invalidity of the antibodies for tumor angiogenesis. Proc.Natl.Acad.Sci USA. Dec;86(24).9911-5 (1989) PMID: <u>2481318</u>. **WB, IF**