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Product code	71-511
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) Recommended using 71-513 anti-basic FGF antibody (bFM-2)
	 Immunofluorescence staining: (1µg/ml) Recommended using 71-513 anti- basic FGF antibody (bFM-2)
	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)
	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)
Background	Basic FGF (bFGF / FGF-2) plays an important role in the regulation of cell
	survival, cell division, cell differentiation and cell migration. This product is a
	neutralizing antibody that should be useful in studies on the physiological role
	and the conformation-function relationship of FGF-2 because they block its
	biological activity.
	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-1), neutralizing



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

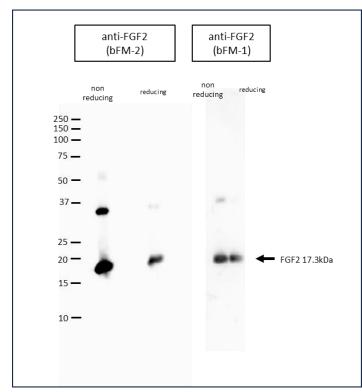


Fig.1 Western Blot of FGF-2

Applied sample; 1. 0.1µg of recombinant FGF-2

Primary antibody; 1μ g/ml of anti-FGF-2 antibody

Recommended using 71-513 anti-basic FGF antibody (bFM-2)

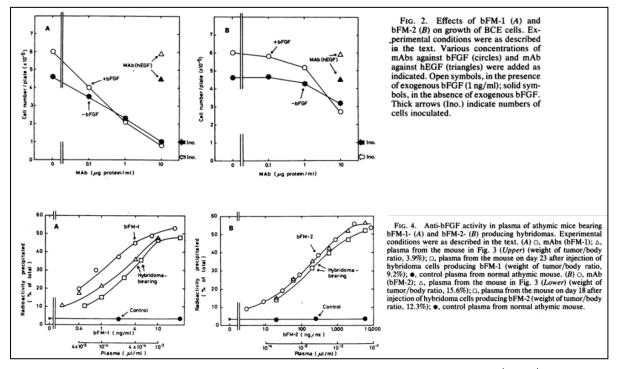


Fig2. Neutralizing antibody for growth of BCE cell and tumor angiogenesis (Ref.1)



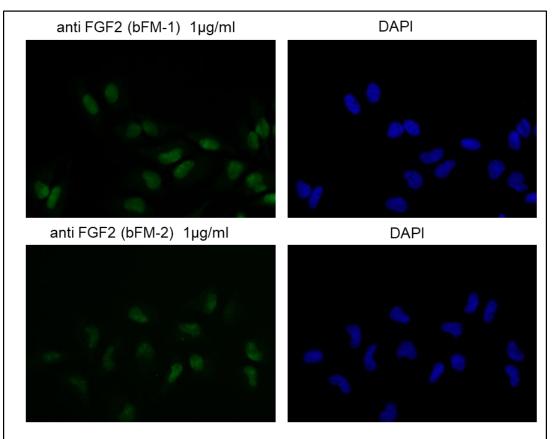


Fig.3 IF of FGF-2

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:

 $71\mathchar`embed{scheme} 513\mathchar`embed{scheme} Anti-Basic FGF (FGF-2) antibody, mouse monoclonal (bFM-2) , neutralizing$

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

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**