

Rat bFGF/FGF2 Antibody Pair Set

Catalog No.	E-KAB-0642	Applications	ELISA
Synonyms	FGF-2;B-FGF;BFGF;FGFB;HBGF-2;prostatropin;heparin-binding growth factor 2		

Kit components & Storage

Title	Specifications	Storage
Rat bFGF/FGF2 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Rat bFGF/FGF2 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

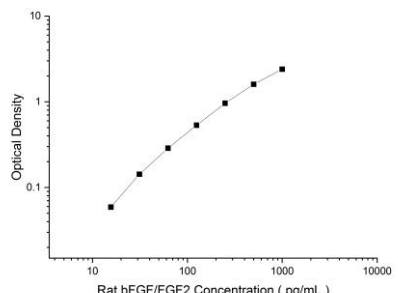
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0642)	
		Rat bFGF/FGF2 Capture Antibody	Rat bFGF/FGF2 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat bFGF/FGF2 protien	Recombinant Rat bFGF/FGF2 protien
	Swissprot	P09038	
Product details	Reactivity	Rat	Rat
	Host	Mouse	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Rat bFGF/FGF2 in ELISAs.	

Applications

Rat bFGF/FGF2 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Rat bFGF/FGF2 Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Rat bFGF/FGF2 Concentration (pg/mL). The x-axis ranges from 10 to 10000, and the y-axis ranges from 0.1 to 10. The data points form a straight line, indicating a power-law relationship between concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat bFGF/FGF2 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>20</td> <td>0.1</td> </tr> <tr> <td>50</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>0.4</td> </tr> <tr> <td>200</td> <td>0.8</td> </tr> <tr> <td>500</td> <td>1.5</td> </tr> <tr> <td>1000</td> <td>3.0</td> </tr> </tbody> </table>	Rat bFGF/FGF2 Concentration (pg/mL)	Optical Density	10	0.05	20	0.1	50	0.2	100	0.4	200	0.8	500	1.5	1000	3.0
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ELISA Detection	1:1000-1:10000	Rat bFGF/FGF2 Detection Antibody (Biotin)																	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.