

Datasheet for ABIN2666433 FGF3 Protein (AA 28-212, N-Term)



Overview

Quantity:	10 µg
Target:	FGF3
Protein Characteristics:	AA 28-212, N-Term
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC)
Product Details	
Purity:	> 95 % , as determined by Coomassie stained SDS-PAGE.
Purity: Sterility:	> 95 % , as determined by Coomassie stained SDS-PAGE. 0.22 µm filtered
Purity: Sterility: Endotoxin Level:	 > 95 % , as determined by Coomassie stained SDS-PAGE. 0.22 µm filtered Less than 0.01ng per µg cytokine as determined by the LAL method.
Purity: Sterility: Endotoxin Level: Target Details	 > 95 % , as determined by Coomassie stained SDS-PAGE. 0.22 µm filtered Less than 0.01ng per µg cytokine as determined by the LAL method.
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Purity: Sterility: Endotoxin Level: Target Details Target: Alternative Name: Background:	 > 95 %, as determined by Coomassie stained SDS-PAGE. 0.22 µm filtered Less than 0.01ng per µg cytokine as determined by the LAL method. FGF3 FGF-3 (FGF3 Products) FGF-3 is a member of the fibroblast growth factor family. The mouse FGF-3, originally named
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Purity: Sterility: Endotoxin Level: Target Details Target: Alternative Name: Background:	 > 95 % , as determined by Coomassie stained SDS-PAGE. 0.22 µm filtered Less than 0.01ng per µg cytokine as determined by the LAL method. FGF3 FGF3 (FGF3 Products) FGF-3 is a member of the fibroblast growth factor family. The mouse FGF-3, originally named Int-2, was identified as a proto-oncogene that is activated by nearby integration of mouse mammary tumor viruses in virus-induced tumors. The amplification of the FGF-3 gene has been

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	breast cancer, and bladder cancer. FGF-3 is also associated with tumor metastasis and
	recurrence in human hepatocellular carcinoma. Like many other FGF proteins, FGF-3 plays
	important roles during embryonic development. FGF-3 is required for normal inner ear
	development including placode induction, maintenance, and otic vesicle formation. The role of
	FGF-3 in ear development is conserved amongst different vetebrates including mouse, chicken,
	and zebrafish. It has been shown that FGF-3, FGF-8, and FGF-10 play redundant and unique
	roles in ear development. FGF-3 is also important for early hindbrain patterning. The hindbrain
	boundary cells-derived FGF-3 regulates the expression of multiple markers at hindbrain
	boundaries. The involvement of FGF-3 in cardiovascular development also has been reported
	and is described to be in two forms. The two forms of FGF-3 describe a secreted form that
	induces proliferation and another form that localizes in the nucleus and inhibits cell
	proliferation. The nuclear isoform binds rpS2 and this binding has been suggested to interfere
	with ribosomal biogenesis.
Molecular Weight:	The 192 amino acid recombinant protein has a predicted molecular mass of approximately 22
	kDa. The DTT-reduced and non-reduced protein migrate at approximately 22 kDa by SDS-PAGE.
	The predicted N-terminal amino acid is Met.
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin
	Signaling Pathway

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: The ED50 is 100 - 200 ng/ml, corresponding to a specific activity of 5.0 -10 x 103 units/mg, as determined by a dose-dependent stimulation of NIH3T3 cell proliferation in the presence of 2 μ g/ml of heparin.
Restrictions:	For Research Use only
Handling	
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Format:	Liquid
Reconstitution:	For maximum results, quick spin vial prior to opening. The protein can be aliquoted and stored
	at -20 °C to -70 °C. Stock solutions can also be prepared at 50 - 100 μ g/mL in sterile buffer
	(PBS, HPBS, DPBS, or EBSS) containing carrier protein such as 0.2-1 % BSA or HSA and stored
	in working aliquots at -20 °C to -70 °C.
Buffer:	0.22 μm filtered protein solution is in 20 mM Tris, pH 7.0, 100 mM NaCl, 1 mM EDTA, and 10 %

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Handling

	Glycerol.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Human FGF-3 is unstable at room temperature. Unopened vial can be stored at -20°C for six months, or at -70°C for one year.