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Datasheet for ABIN2721098

FGF8 Protein (Transcript Variant F)

1 Image

Overview

Quantity:	25 µg
Target:	FGF8
Protein Characteristics:	Transcript Variant F
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func), Antibody Production (AbP), Standard (STD), Protein Interaction (PI)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	<ul style="list-style-type: none">• Recombinant human FGF8 (transcript variant F) protein expressed in E. coli.• Produced with end-sequenced ORF clone• Tested for bioactivity.
Purity:	> 95 % as determined by SDS-PAGE and Coomassie blue staining
Endotoxin Level:	Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).
Biological Activity Comment:	ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF- receptors is less than or equal to 0.5 ng/ml, corresponding to a specific activity of > 2 x 10 ⁶ units/mg.

Target Details

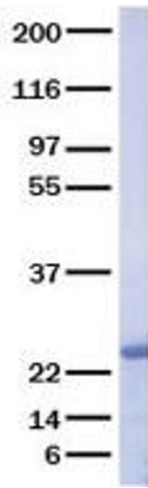
Target:	FGF8
Alternative Name:	Fgf8 (FGF8 Products)
Background:	<p>The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein is known to be a factor that supports androgen and anchorage independent growth of mammary tumor cells. Overexpression of this gene has been shown to increase tumor growth and angiogenesis. The adult expression of this gene is restricted to testes and ovaries. Temporal and spatial pattern of this gene expression suggests its function as an embryonic epithelial factor. Studies of the mouse and chick homologs revealed roles in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination. The alternative splicing of this gene results in four transcript variants.</p>
Molecular Weight:	22.5 kDa
NCBI Accession:	NP_149353
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Dopaminergic Neurogenesis

Application Details

Application Notes:	<p>Recombinant human proteins can be used for:</p> <ul style="list-style-type: none">Native antigens for optimized antibody productionPositive controls in ELISA and other antibody assaysProtein-protein interactionIn vitro biochemical assays and cell-based functional assays
Restrictions:	For Research Use only

Handling

Buffer:	Lyophilized from a 0.2 μ M filtered solution of 20 mM phosphate buffer, 100 mM NaCl, pH 7.2
Handling Advice:	Resuspend the protein in the desired concentration in proper buffer
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



Western Blotting

Image 1. Validation with Western Blot