

Anti-Fibroblast growth factor 4 FGF4 Antibody

Catalog Number: A01675

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/delta) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is $\leq 0.5\mu\text{g}$ per 1×10^6 cells in $100\mu\text{l}$ of staining volume followed by a secondary fluorescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About FGF4

Fibroblast growth factor 4 (FGF4) is a member of the fibroblast growth factor (FGF) family that possess broad mitogenic and cell survival activities and play key roles in growth and survival of stem cells during embryogenesis, tissue regeneration, and carcinogenesis. FGF4 was identified by its strong oncogenic transforming activity and is a potent angiogenic factor, expressed in several highly vascularized tumors and also in adult mouse testis, intestine, and brain. Studies on the mouse homolog suggests a function in bone morphogenesis and limb development through the sonic hedgehog (SHH) signaling pathway. Furthermore, FGF4 regulates neural progenitor cell proliferation and neuronal differentiation. Recent studies show a growth-promoting role for FGF4 in human embryonic stem cells and a putative feedback inhibition mechanism by a novel FGF4 splice isoform that may serve to promote differentiation at a later stages of development.

Overview

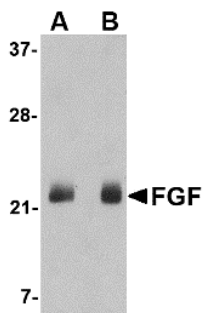
Product Name	Anti-Fibroblast growth factor 4 FGF4 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Fibroblast growth factor 4 FGF4 Antibody (Catalog # A01675). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse.
Conjugate	Biotin
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal SK7
Formulation	FGF4 Antibody is supplied in PBS containing 0.02% sodium azide.

Storage Instructions	FGF4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P08620

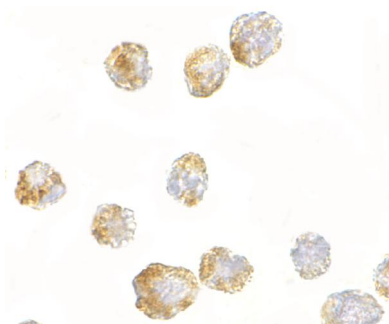
Technical Details

Immunogen	FGF4 antibody was raised against a 18 amino acid synthetic peptide near the carboxy terminus of the human FGF4. The immunogen is located within the last 50 amino acids of FGF4.
Predicted Reactive Species	Bovine, Chicken
Cross Reactivity	SOX17 antibody is human, mouse and rat reactive. SOX17 is predicted to not cross-react with other SOX proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	FGF4 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used:</p> <p>FGF4 antibody can be used for detection of FGF4 by Western blot at 0.5 - 1 ug/mL. Antibody can also be used for immunocytochemistry starting at 2.5 ug/mL. For immunofluorescence start at 2.5 ug/mL.</p> <p>Antibody validated: Western Blot in mouse samples; Immunocytochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

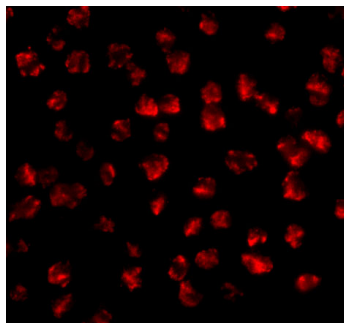
Anti-Fibroblast growth factor 4 FGF4 Antibody (A01675) Images



Western blot analysis of FGF4 in NIH 3T3 cell lysate with FGF4 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunocytochemistry of FGF4 in 3T3 cells with FGF4 antibody at 2.5 ug/mL.



Immunofluorescence of FGF4 in 3T3 cells with FGF4 antibody at 2.5 ug/mL.

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