

## Anti-KGF/FGF7 Antibody Picoband™

Catalog Number: A01931-1

### About FGF7

Keratinocyte growth factor is a protein that in humans is encoded by the FGF7 gene. 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 a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis.

### Overview

Product Name	Anti-KGF/FGF7 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-KGF/FGF7 Antibody Picoband™ catalog # A01931-1. Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P21781

### Technical Details

Immunogen	E.coli-derived human KGF/FGF7 recombinant protein (Position: R54-K178).
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
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:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.25-0.5ug/ml, Human</p> <p>Direct ELISA, 0.1-0.5ug/ml, Human</p>

## Anti-KGF/FGF7 Antibody Picoband™ (A01931-1) Images

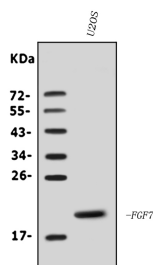


Figure 1. Western blot analysis of KGF/FGF7 using anti-KGF/FGF7 antibody (A01931-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human U20S whole cell lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-KGF/FGF7 antigen affinity purified polyclonal antibody (Catalog # A01931-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for KGF/FGF7 at approximately 22KD. The expected band size for KGF/FGF7 is at 22KD.

## 1 Publications Citing This Product

1. PubMed ID: 30823849, Li X,Wang X,Bai L,Zhao P,Zhang M.Exposure to 50 Hz electromagnetic fields enhances hair follicle regrowth in C57BL/6 mice.Exp Biol Med(Maywood).2019 Apr;244(5):389-394.doi:10.1177/1535370219834639.Epub 2019 Mar 1.PMID:30823849;PMCID:PMC6488868.

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