

Anti-Fibroblast activation protein, alpha/FAP Antibody Picoband™

Catalog Number: A00422-1

About FAP

Fibroblast activation protein alpha is a 170 kDa melanoma membrane-bound gelatinase, protein that in humans is encoded by the FAP gene. The protein encoded by this gene is a homodimeric integral membrane gelatinase belonging to the serine protease family. It is selectively expressed in reactive stromal fibroblasts of epithelial cancers, granulation tissue of healing wounds, and malignant cells of bone and soft tissue sarcomas. This protein is thought to be involved in the control of fibroblast growth or epithelial-mesenchymal interactions during development, tissue repair, and epithelial carcinogenesis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Overview

Product Name	Anti-Fibroblast activation protein, alpha/FAP Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Fibroblast activation protein, alpha/FAP Antibody Picoband™ catalog # A00422-1. Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	Q12884

Technical Details

Immunogen	E. coli-derived human FAP recombinant protein (Position: R550-A619).
Predicted Reactive Species	Chicken
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, 0.1-0.5ug/ml</p> <p>Direct ELISA, 0.1-0.5ug/ml</p>

Anti-Fibroblast activation protein, alpha/FAP Antibody Picoband™ (A00422-1) Images

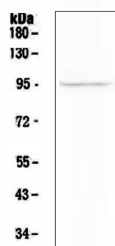


Figure 1. Western blot analysis of FAP using anti-FAP antibody (A00422-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human A375 cell lysates. 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-FAP antigen affinity purified polyclonal antibody (Catalog # A00422-1) 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 1:10000 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 FAP at approximately 95KD. The expected band size for FAP is at 88KD.

1 Publications Citing This Product

1. PubMed ID: 34049984, Jin X,Wei M,Wang S,Wang G,Lai Y,Shi Y,Zhang Y,Yang Z,Wang X.Detecting fibroblast activation proteins in lymphoma using 68Ga-FAPI PET/CT.J Nucl Med.2021 May 28;jnumed.121.262134.doi:10.2967/jnumed.121.262134.Epub ahead of print.PMID:34049984.

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