

Anti-Fanca/FAA Antibody Picoband™

Catalog Number: A03662-2

About Fanca

Fanconi anaemia, complementation group A, also known as FAA, FACA and FANCA, is a protein which in humans is encoded by the FANCA gene. Acts upstream of or within several processes, including gonad development; regulation of CD40 signaling pathway; and regulation of regulatory T cell differentiation. Predicted to be located in nucleoplasm. Predicted to be part of Fanconi anaemia nuclear complex. Is expressed in several structures, including gut; liver; lung; reproductive system; and spleen. Used to study Fanconi anemia complementation group A. Human ortholog(s) of this gene implicated in several diseases, including Fanconi anemia (multiple); acute myeloid leukemia; esophagus squamous cell carcinoma; ovarian disease (multiple); and skin melanoma. Orthologous to human FANCA (FA complementation group A).

Overview

Product Name	Anti-Fanca/FAA Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Fanca/FAA Antibody Picoband™ catalog # A03662-2. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse, Rat.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q9JL70

Technical Details

Immunogen	E.coli-derived mouse Fanca/FAA recombinant protein (Position: E1272-F1439).
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25-0.5 ug/ml, Mouse, Rat Flow Cytometry, 1-3 ug/1x10⁶ cells, Mouse Direct ELISA, 0.1-0.5 ug/ml, Mouse

Anti-Fanca/FAA Antibody Picoband™ (A03662-2) Images

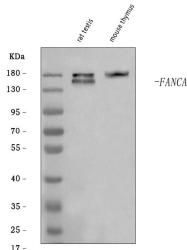


Figure 1. Western blot analysis of Fanca/FAA using anti-Fanca/FAA antibody (A03662-2).

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 30 ug of sample under reducing conditions.

Lane 1: rat testis tissue lysates,

Lane 2: mouse thymus tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-Fanca/FAA antigen affinity purified polyclonal antibody (Catalog # A03662-2) 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 Fanca/FAA at approximately 180 kDa. The expected band size for Fanca/FAA is at 161 kDa.

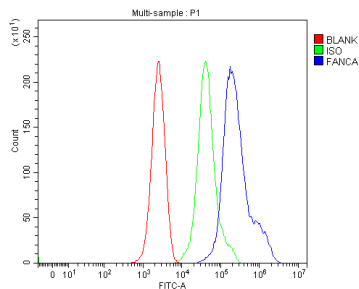


Figure 2. Flow Cytometry analysis of ANA-1 cells using anti-Fanca/FAA antibody (A03662-2).

Overlay histogram showing ANA-1 cells stained with A03662-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Fanca/FAA Antibody (A03662-2, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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