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Anti-Fas Antibody Picoband™

Catalog Number: A00055

About Fas

FAS (also known as surface antigen APO1 or CD95) is a member of the tumour-necrosis receptor factor family of death receptors. It acts as an inducer of both neurite growth in vitro and accelerated recovery after nerve injury in vivo. FAS antigen is expressed and functional on papillary thyroid cancer cells and this may have potential therapeutic significance. The FAS antigen shows structural homology with a number of cell surface receptors, including tumor necrosis factor (TNF) receptors and the low-affinity nerve growth factor receptor (NGFR) and it is mapped to 10q24.1. The FAS and FASL system plays a key role in regulating apoptotic cell death and corruption of this signalling pathway has been shown to participate in immune escape and tumorigenesis.

Overview

Product Name	Anti-Fas Antibody Picoband™
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Fas Antibody Picoband™ catalog # A00055. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse, Rat.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	P25446

Technical Details

Immunogen	E.coli-derived mouse Fas recombinant protein (Position: E46-K279).
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

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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, 0.25-0.5ug/ml, Mouse, Rat Flow Cytometry, 1-3ug/1x10^6 cells, Mouse Direct ELISA, 0.1-0.5ug/ml, Mouse

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Anti-Fas Antibody Picoband™ (A00055) Images

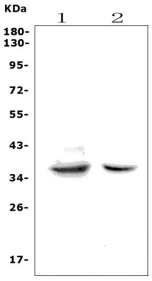

Figure 1. Western blot analysis of Fas using anti-Fas antibody (A00055).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: rat thymus tissue lysates,
Lane 2: mouse RAW264.7 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-Fas antigen affinity purified polyclonal antibody (Catalog # A00055) 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 Fas at approximately 37KD. The expected band size for Fas is at 37KD.

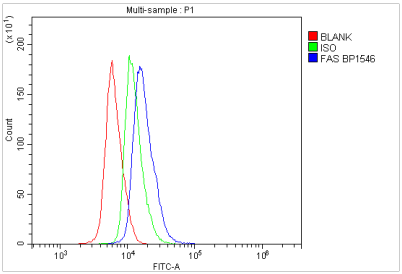

Figure 2. Flow Cytometry analysis of mouse spleen cells using anti-Fas antibody (A00055).
Overlay histogram showing mouse spleen cells stained with A00055 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Fas Antibody (A00055, 1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

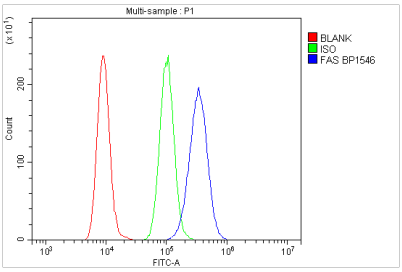

Figure 3. Flow Cytometry analysis of RAW264.7 cells using anti-Fas antibody (A00055).
Overlay histogram showing RAW264.7 cells stained with A00055 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Fas Antibody (A00055, 1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

4 Publications Citing This Product

1. PubMed ID: 10.1007/s11356-021-15453-6, Perfluorooctanoic acid exposure in early pregnancy induces oxidative stress in mice uterus and liver

2. PubMed ID: 10.1002/cbf.1523, Inhibitory effect of mesenchymal stem cells on lymphocyte proliferation

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3. PubMed ID: -, Lanfen Chen,Wei Chen,Mengbei Zhang et al.Comparison of therapeutic effects of melatonin by two different routes in focal cerebral ischemic rats.Journal of Neurorestoratology 2019,07(01):47-53.

Visit bosterbio.com/anti-fas-picoband-trade-antibody-a00055-boster.html to see all 4 publications.

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