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antibody and ELISA experts

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Anti-c-Fos/FOS Antibody Picoband™

Catalog Number: A00297-1

About FOS

The human oncogene c-fos is cellular homolog of the transforming gene of Finkel-Biskis-Jinkins (FBJ) murine osteosarcoma virus which was mapped to a single human chromosome. c-Fos is encoded by the FOS gene. FOS was the first transcription factor identified that has a critical function in regulating the development of cells destined to form and maintain the skeleton. FOS is also a major component of the activator protein-1 (AP-1) transcription factor complex, which includes members of the JUN family. c-fos is a major nuclear target for signal transduction pathways involved in the regulation of cell growth, differentiation, and transformation. Using transgenic and knockout mice, Grigoriadis et al. (1995) established a unique role for the proto-oncogene and nuclear transcription factor, Fos, in regulating the differentiation and activity of specific bone cell populations, both during normal development and in bone disease.

Overview

Product Name	Anti-c-Fos/FOS Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-c-Fos/FOS Antibody Picoband™ catalog # A00297-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg 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	P01100

Technical Details

Immunogen	E.coli-derived human c-Fos/FOS recombinant protein (Position: N45-D293).
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, Human Flow Cytometry, 1-3ug/1x10^6 cells, Human Direct ELISA, 0.1-0.5ug/ml, Human

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Anti-c-Fos/FOS Antibody Picoband™ (A00297-1) Images

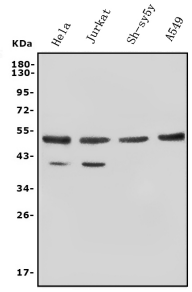

Figure 1. Western blot analysis of c-Fos/FOS using anti-c-Fos/FOS antibody (A00297-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human Jurkat whole cell lysates,
Lane 3: human Sh-sy5y whole cell lysates,
Lane 4: human A549 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-c-Fos/FOS antigen affinity purified polyclonal antibody (Catalog # A00297-1) 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 c-Fos/FOS at approximately 50KD. The expected band size for c-Fos/FOS is at 50KD.

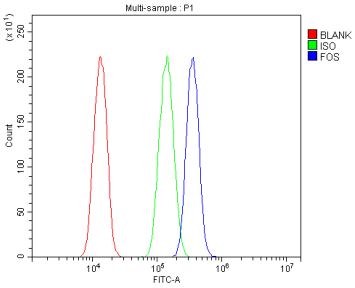

Figure 2. Flow Cytometry analysis of SiHa cells using anti-c-Fos/FOS antibody (A00297-1).
Overlay histogram showing SiHa cells stained with A00297-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-c-Fos/FOS Antibody (A00297-1, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

4 Publications Citing This Product

1. PubMed ID: 10.1080/1028602042000325609, Effects of isoliensinine on angiotensin II-induced proliferation of porcine coronary arterial smooth muscle cells

2. PubMed ID: 10.1016/j.tiv.2016.12.016, Alterations in transcription and protein expressions of HCC-related genes in HepG2 cells caused by microcystin-LR

3. PubMed ID: 10.1007/s10565-008-9054-1, Genistein induces G 2 /M cell cycle arrest via stable activation of ERK1/2 pathway in MDA-MB-231 breast cancer cells

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