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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, Mouse, Rat
Description	Boster Bio Anti-c-Fos/FOS Antibody Picoband® catalog # A00297-1. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
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).
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

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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Human, Mouse, Rat ELISA, 0.1-0.5ug/ml, -

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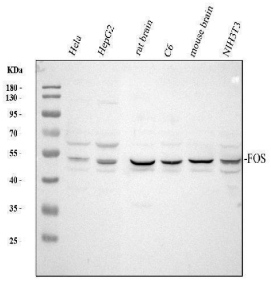
Anti-c-Fos/FOS Antibody Picoband® (A00297-1) Images



Western blot analysis of c-Fos/FOS using anti-c-Fos/FOS antibody (A00297-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: rat brain tissue lysates, Lane 4: rat C6 whole cell lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse NIH/3T3 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for c-Fos/FOS at approximately 50-55 kDa. The expected band size for c-Fos/FOS is at 41 kDa.

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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Anti-c-Fos/FOS Antibody

For Research Use Only. Not for use in diagnostic procedures.