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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Fos Monoclonal Antibody (8B5)

Catalog Number: M00297-2

About FOS

This monoclonal antibody recognizes a protein of 72kDa, which is identified as MMP2. The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, Fibronectin, Laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-2 (also designated type IV collagenase) cleaves collagen types IV,V, VII and X and gelatin type I. Activation of MMP-2 secretion requires the Ras signaling pathway.

Overview

Product Name	Anti-Fos Monoclonal Antibody (8B5)
Reactive Species	Dog, Human, Mouse, Rat
Description	Boster Bio Anti-Fos Monoclonal Antibody (8B5) (Catalog# M00297-2). Tested in ELISA, IHC, WB application(s). This antibody reacts with Human, Mouse, Rat, Dog.
Conjugate	Biotin
Application	ELISA, IHC, WB
Clonality	Monoclonal 8B5
Formulation	Lyophilized from 1ml of 2x PBS containing 0.09% sodium azide, PEG, and sucrose.
Storage Instructions	Store at -20°C for one year. For short-term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P01100

Technical Details

Immunogen	Synthetic peptide corresponding to a portion of human c-Fos
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Isotype	IgG1
Form	Lyophilized
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Thiophilic adsorption and size exclusion chromatography purified.

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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: ELISA (0.1μg/ml) Immunohistochemistry (1:50) Western Blot (0.5μg/ml, ECL). Detects a band of ~50kDa. Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.

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Anti-Fos Monoclonal Antibody (8B5) (M00297-2) Images

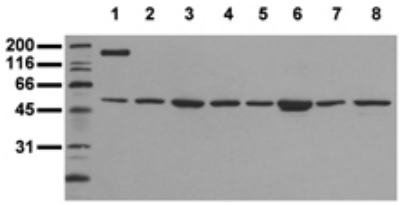

Figure 1. Western blot analysis of FOS using anti-FOS antibody (M00297-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins 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-FOS antigen affinity purified polyclonal antibody (Catalog # M00297-2) 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-Mouse 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 # SA1021) with Tanon 5200 system. A specific band was detected for FOS.

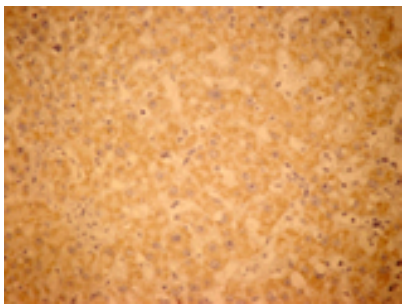

Figure 2. IHC analysis of FOS using anti-FOS antibody (M00297-2).
FOS was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-FOS Antibody (M00297-2) overnight at 4°C. Biotinylated goat anti Mouse IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1021) with DAB as the chromogen.

6 Publications Citing This Product

1. PubMed ID: 27429635, Analgesic Neural Circuits Are Activated by Electroacupuncture at Two Sets of Acupoints

2. PubMed ID: 26491460, The Expression Patterns of c-Fos and c-Jun Induced by Different Frequencies of Electroacupuncture in the Brain

3. PubMed ID: 18763282, Positional and expressive alteration of prohibitin during the induced differentiation of human hepatocarcinoma SMMC-7721 cells

Visit bosterbio.com/anti-fos-monoclonal-antibody-8b5-m00297-2-boster.html to see all 6 publications.

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