Product datasheet

Anti-FOSB Antibody

Catalog Number: *PB0623*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-FOSB Antibody
Gene Name	FOSB
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Fos B different from the related mouse sequence by two amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	36 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

FOSB, FBJ murine osteosarcoma viral oncogene homolog B, is a protein that, in humans, is encoded by the FOSB gene. FOSB is a member of Fos gene family which consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. The FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation. The FOSB gene is mapped to 19q13.32. Delta FOSB is a truncated splice variant of FOSB. Delta FosB has been implicated in the development of drug addiction and control of the reward system in the brain, and is linked to changes in a number of other gene products such as CREB and sirtuins. Delta FosB also regulates the commitment of mesenchymal precursor cells to the adipocyte or osteoblast lineage.

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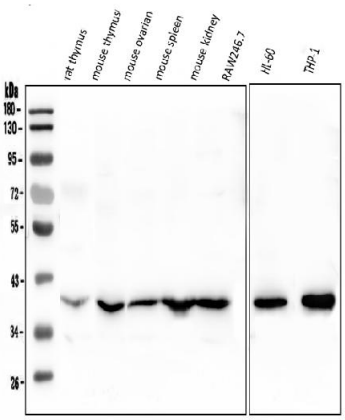
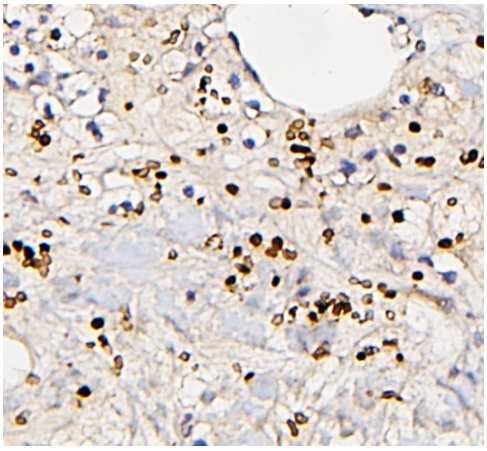
Selected Validation Data



Western blot analysis of FOSB using anti-FOSB antibody (PB0623). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: rat thymus tissue lysates,
Lane 2: mouse thymus tissue lysates,
Lane 3: mouse ovary tissue lysates,
Lane 4: mouse spleen tissue lysates,
Lane 5: mouse kidney tissue lysates,
Lane 6: mouse RAW246.7 whole cell lysates,
Lane 7: human HL-60 whole cell lysates,
Lane 8: human THP-1 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-FOSB antigen affinity purified polyclonal antibody (PB0623) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for FOSB at approximately 36 kDa. The expected band size for FOSB is at 36 kDa.



IHC analysis of FOSB using anti-FOSB antibody (PB0623) .
FOSB was detected in a paraffin-embedded section of human renal cancer tissue. The tissue section was incubated with rabbit anti-FOSB Antibody (PB0623) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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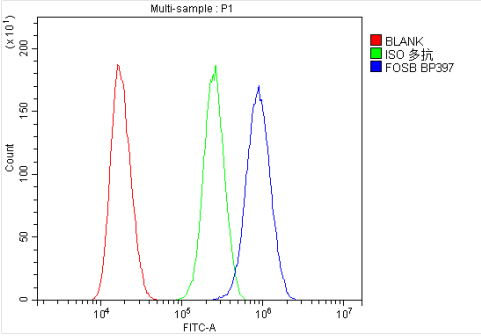

Flow Cytometry analysis of SiHa cells using anti-FOSB antibody (PB0623). Overlay histogram showing SiHa cells stained with PB0623 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-FOSB Antibody (PB0623) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.