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FOSB Antibody (Center P137)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6940c

Product Information

Application	FC, WB, E
Primary Accession	P53539
Other Accession	P13346
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35928
Antigen Region	122-149

Additional Information

Gene ID	2354
Other Names	Protein fosB, G0/G1 switch regulatory protein 3, FOSB, G0S3
Target/Specificity	This FOSB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 122-149 amino acids from the Central region of human FOSB.
Dilution	FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FOSB Antibody (Center P137) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FOSB
Synonyms	G0S3
Function	Heterodimerizes with proteins of the JUN family to form an AP-1 transcription factor complex, thereby enhancing their DNA binding activity to

gene promoters containing an AP-1 consensus sequence 5'- TGA[GC]TCA-3' and enhancing their transcriptional activity (PubMed:12618758, PubMed:28981703). As part of the AP-1 complex, facilitates enhancer selection together with cell-type-specific transcription factors by collaboratively binding to nucleosomal enhancers and recruiting the SWI/SNF (BAF) chromatin remodeling complex to establish accessible chromatin (By similarity). Together with JUN, plays a role in activation-induced cell death of T cells by binding to the AP-1 promoter site of FASLG/CD95L, and inducing its transcription in response to activation of the TCR/CD3 signaling pathway (PubMed:12618758). Exhibits transactivation activity in vitro (By similarity). Involved in the display of nurturing behavior towards newborns (By similarity). May play a role in neurogenesis in the hippocampus and in learning and memory-related tasks by regulating the expression of various genes involved in neurogenesis, depression and epilepsy (By similarity). Implicated in behavioral responses related to morphine reward and spatial memory (By similarity).

Cellular Location Nucleus {ECO:0000250|UniProtKB:P13346}.

Tissue Location [Isoform 11]: Expressed in the nucleus accumbens of the striatum (at protein level).

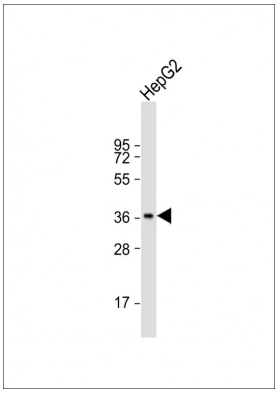
Background

FosB interacts with Jun proteins enhancing their DNA binding activity.

References

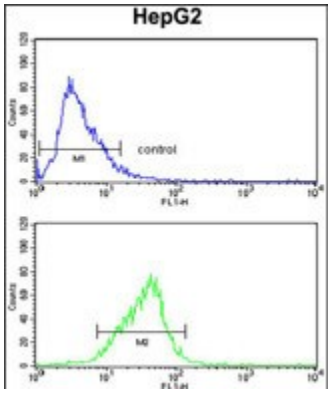
Li,S., et.al., Hepatology 49 (4), 1194-1202 (2009)
Starr,J.M., et.al., Mech. Ageing Dev. 129 (12), 745-751 (2008)

Images



Anti-FOSBAntibody(CenterP137) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 36 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

FOSB Antibody (Center P137)(Cat.#AP6940c) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.