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Fos B Antibody

Rabbit mAb
Catalog # AP90483

Product Information

Application	WB, IHC, IF, ICC, IP, IHF
Primary Accession	P53539
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	G0/G1 switch regulatory protein 3, G0S3, Protein fosB; GOSB; Oncogene FOSB; Activator protein 1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	35928

Additional Information

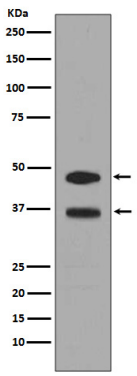
Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:20
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Fos B
Description	FosB interacts with Jun proteins enhancing their DNA binding activity. The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

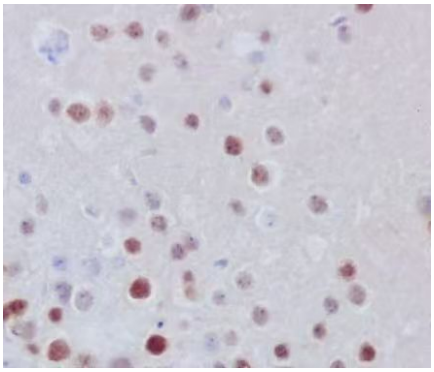
Name	FOSB
Synonyms	G0S3
Function	Heterodimerizes with proteins of the JUN family to form an AP-1 transcription factor complex, thereby enhancing their DNA binding activity to gene promoters containing an AP-1 consensus sequence 5'- TGA[GC]TCA-3' and enhancing their transcriptional activity (PubMed:12618758, 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).

Images



Western blot analysis of FosB expression in C6 cell lysate treated with serum.



Immunohistochemical analysis of paraffin-embedded mouse brain, using Fos B Antibody.

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