

**Anti-Fos B Antibody**  
Catalog # ABO12763**Specification**

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**Anti-Fos B Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P53539</a>
Host	<b>Rabbit</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Polyclonal</b>
Format	<b>Lyophilized</b>

**Description**

Rabbit IgG polyclonal antibody for Protein fosB(FOSB) detection. Tested with WB, IHC-P in Human;Mouse;Rat.<br>

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Fos B Antibody - Additional Information**

**Gene ID** 2354

**Other Names**

Protein fosB, G0/G1 switch regulatory protein 3, FOSB, G0S3

**Calculated MW**

35928 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Subcellular Localization**

Nucleus.

**Protein Name**

Protein fosB

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Fos B (264-291aa LPFQTSQDAPPNLTASLFTHSEVQVLGD), different from the related mouse sequence by two amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the bZIP family. Fos subfamily.

**Anti-Fos B Antibody - 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](http://www.uniprot.org/citations/12618758), PubMed: [28981703](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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**

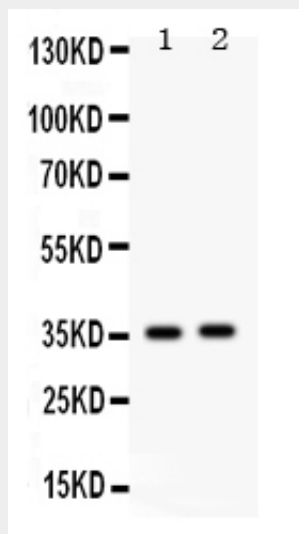
[Isoform 11]: Expressed in the nucleus accumbens of the striatum (at protein level).

**Anti-Fos B Antibody - Protocols**

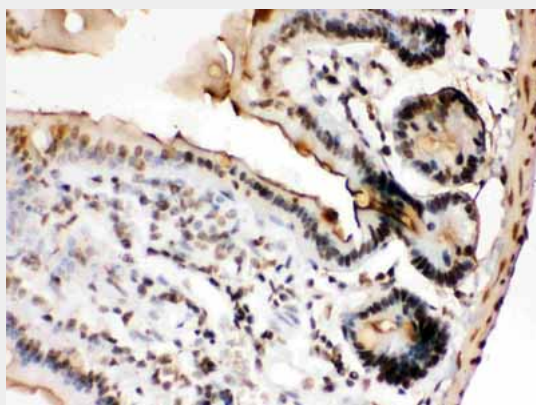
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

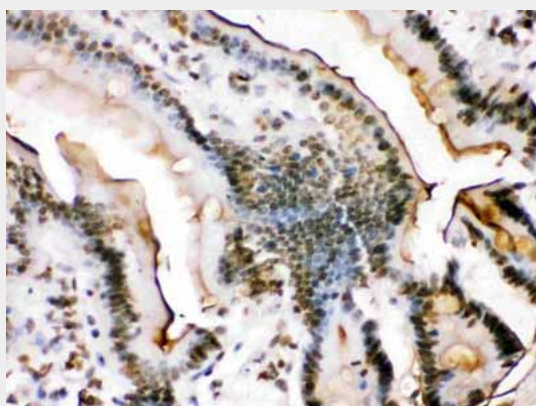
## Anti-Fos B Antibody - Images



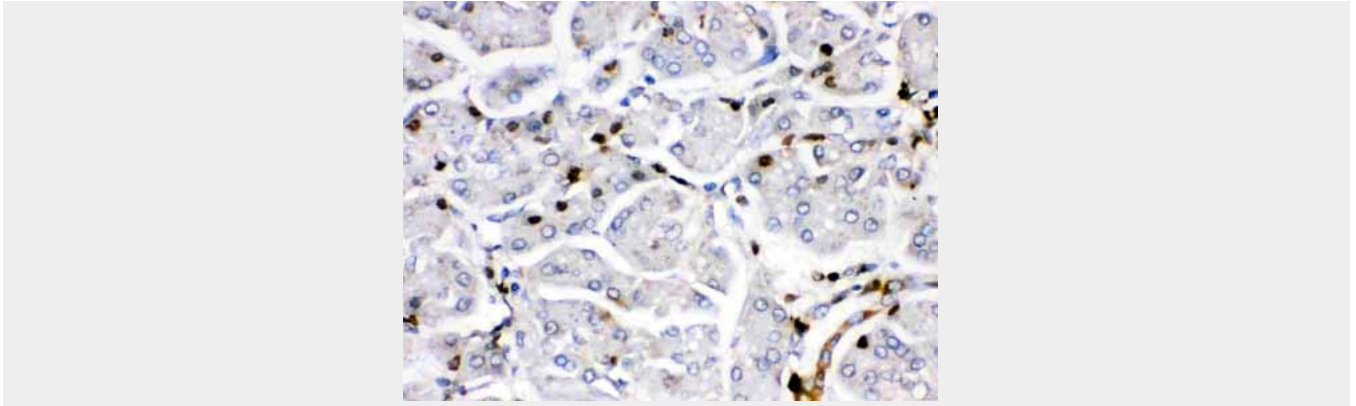
Anti- Fos B antibody, ABO12763, Western blotting  
All lanes: Anti Fos B (ABO12763) at 0.5ug/ml  
Lane 1: Rat Kidney Tissue Lysate at 50ug  
Lane 2: HEPG2 Whole Cell Lysate at 40ug  
Predicted bind size: 36KD  
Observed bind size: 36KD



Anti- Fos B antibody, ABO12763, IHC(P)IHC(P): Mouse Intestine Tissue



Anti- Fos B antibody, ABO12763, IHC(P)IHC(P): Rat Intestine Tissue



Anti- Fos B antibody, ABO12763, IHC(P)IHC(P): Human Pancreatic Cancer Tissue

### **Anti-Fos B Antibody - Background**

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.