

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

Anti-Fos B Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P53539
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

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

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
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Nucleus.

Protein Name

Protein fosB

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

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

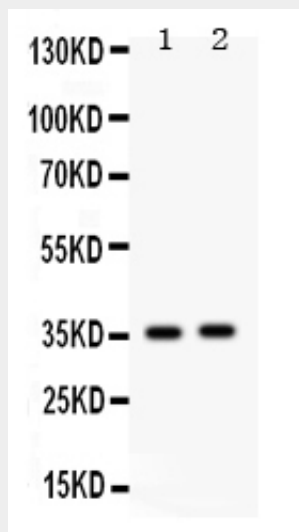
[Isoform 11]: Expressed in the nucleus accumbens of the striatum (at protein level).

Anti-Fos B Antibody - Protocols

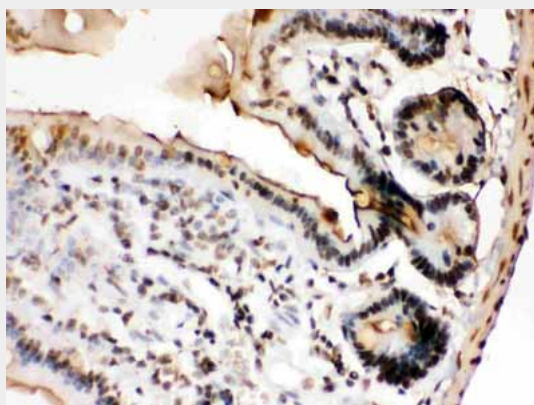
Provided below are standard protocols that you may find useful for product applications.

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

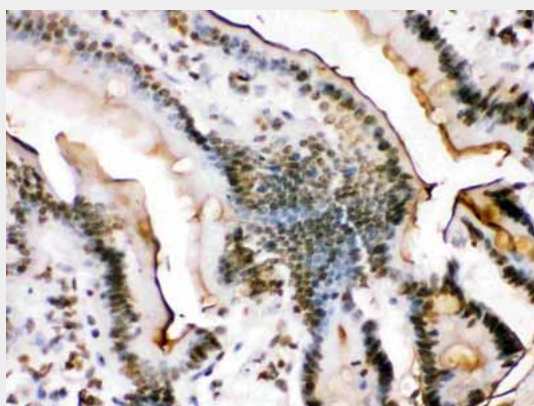
Anti-Fos B Antibody - Images



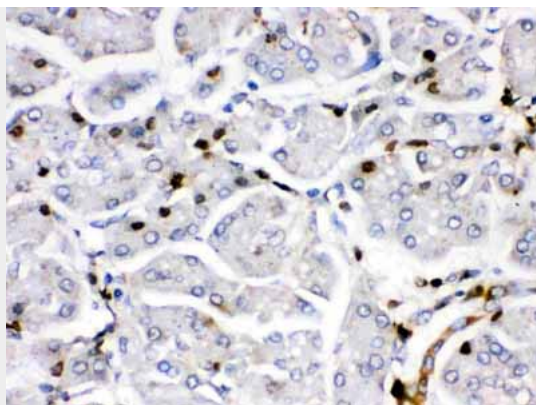
Anti- Fos B antibody, ABO12763, Western blottingAll lanes: Anti Fos B (ABO12763) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: HEPG2 Whole Cell Lysate at 40ugPredicted bind size: 36KDObserved bind size: 36KD



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.