The Fos gene family consists of 4 members: c-Fos, FosB, Fosl1, and Fosl2, also called Fos related antigen 1 and 2 (FRA1 and 2). These leucine zipper proteins can dimerize with proteins of the JUN family leading to the formation of the transcription factor complex AP1.

In addition Fos proteins can be phosphorylated by ERK kinases modulating transcriptional activity, as growth factors, cytokines, neurotransmitters, polypeptide hormones, stress.

The expression of Fos proteins is rapidly and transiently induced by different extracellular stimuli such as growth factors, cytokines, neurotransmitters, polypeptide hormones, stress.

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Synthetic peptide corresponding to AA 2 to 17 from rat c-Fos (UniProt Id: P12841)

TO BE USED IN VITRO / FOR RESEARCH ONLY

NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Selected References SYSY Antibodies

Detecting and discriminating novel objects: The impact of perirhinal cortex disconnection on hippocampal activity patterns.
Kinnavane L, Amin E, Olarte-Sánchez CM, Aggleton JP


Human osteosarcoma cells respond to sorafenib chemotherapy by downregulation of the tumor progression factors S100A4, CXCR4 and the oncogene FOS.

Oncology reports (2014) 31(3): 1147-56. IHC; tested species: human

Dorsal CA1 interneurons contribute to acute stress-induced spatial memory deficits.

Neuropsychopharmacology (2018) : ; ; IHC; tested species: mouse

Genetic tagging of active neurons in auditory cortex reveals maternal plasticity of coding ultrasonic vocalizations.
Tasaka GI, Guenther CJ, Shaley A, Gilday O, Luo L, Mizrahi A


Intragastric preloads of L-tryptophan reduce ingestive behavior via serotoninergic neural mechanisms in male mice.


To make the information comprehensible, we will provide a detailed description of the content. The Fos gene family consists of 4 members: c-Fos, FosB, Fosl1, and Fosl2, also called Fos related antigen 1 and 2 (FRA1 and 2). These leucine zipper proteins can dimerize with proteins of the JUN family leading to the formation of the transcription factor complex AP1. In addition, Fos proteins can be phosphorylated by ERK kinases modulating transcriptional activity, as growth factors, cytokines, neurotransmitters, polypeptide hormones, stress. The expression of Fos proteins is rapidly and transiently induced by different extracellular stimuli such as growth factors, cytokines, neurotransmitters, polypeptide hormones, stress.

The synthetic peptide corresponding to AA 2 to 17 from rat c-Fos (UniProt Id: P12841) is a specific antibody for c-Fos that reacts with human, rat, mouse, monkey, ape, cow, dog, pig. Other species not tested yet. It is a lyophilized, 50 µg specific antibody that was affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H₂O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.

The Fos gene family consists of 4 members: c-Fos, FosB, Fosl1, and Fosl2, also called Fos related antigen 1 and 2 (FRA1 and 2). These leucine zipper proteins can dimerize with proteins of the JUN family leading to the formation of the transcription factor complex AP1. The expression of Fos proteins is rapidly and transiently induced by different extracellular stimuli such as growth factors, cytokines, neurotransmitters, polypeptide hormones, stress. In addition, Fos proteins can be phosphorylated by ERK kinases modulating transcriptional activity, protein stability, and localization. c-Fos is homologous to the Finkel-Biskis-Jinkins (FBJ) murine osteosarcoma virus oncogene.