Sheep antibody to cFOS (2-17): affinity purified

Catalogue No.: S-045-50

FUNCTION: Nuclear phosphoprotein which forms a tight but non-covalently linked complex with the JUN/AP-1 transcription factor. Has a critical function in regulating the development of cells destined to form and maintain the skeleton. It is thought to have an important role in signal transduction, cell proliferation and differentiation. SUBUNIT: Heterodimer. Interacts with DSIP1; this interaction inhibits the binding of active AP1 to its target DNA. Interacts with MAFB.

SUBCELLULAR LOCATION: Nucleus. INDUCTION: C-fos expression increases upon a variety of stimuli, including growth factors, cytokines, neurotransmitters, polypeptide hormones, stress and cell injury. SIMILARITY: Belongs to the bZIP family. Fos subfamily. SIMILARITY: Contains 1 bZIP domain

Batch No.: See product label
Unit size: 50 µg

Antigen: A synthetic peptide (MFSGFNADYEASSSRC; aa 2-17) conjugated to diphtheria toxoid has been used as the immunogen. The peptide is homologous with the corresponding sequence derived from cFos protein human, rat, mouse, hamster and cat.

Other Names: Proto-oncogene protein cFOS; c-FOS

Accession: FOS_HUMAN

Q4FDN1_RAT

FOS_MOUSE

Q56UN0_PHOSU

Q5XQC6_FELCA

Produced in: Sheep

Purity: Affinity purified

Applications: IHC, WB. A concentration of 1 -5 µg/ml is recommended. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.

Specificity: This antiserum shows a high level of specificity for cFOS confirmed by immunohistochemistry.

Cross-reactivity: This antiserum is known to react with rat, rabbit and hamster cFOS.

Form: Lyophilised

Reconstitution: Reconstitute in 50 µl of sterile water. Centrifuge to remove any insoluble material.

Storage: After reconstitution keep aliquots at -20°C for a higher stability, and at 4°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.

Expiry Date: 12 months after purchase

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cFos was induced in the hypothalamic arcuate nucleus of an adult male Wistar rat with i.p. injection of N-methyl-D-aspartate. The brain was fixed by transcardiac perfusion of the rat with formaldehyde (4%). cFos immunoreactivity was detected on floated cryo-sections of the hypothalamic arcuate nucleus with the S-045-50 primary antibody (1:5000) using the biotinylated secondary antibody-ABC method and nickel-diaminobenzidine chromogen. Photo courtesy of Dr. Erik Hrabovszky, Hungarian Academy of Sciences, Budapest, Hungary.