

Sheep antibody to c-FOS (2-17): IgG

Catalogue No.:	S-033-500
Description:	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 DSIPI; 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:	500 ug
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:	c-Fos; Proto-oncogene protein cFOS; cellular oncogene fos; G0/G1 switch regulatory protein 7; FOS; G0S7
Accession:	FOS_HUMAN Q4FDN1_RAT FOS_MOUSE Q56UN0_PHOSU Q5XQC6_FELCA
Produced in:	Sheep
Purity:	Protein G purified.
Applications:	IHC: Use at an amount of 10 ug/mL with an incubation time of 1-3 days at 4_C. This antiserum works in paraffin and 4% PFA fixed frozen sections. Penetration is the key to success. Over-fixed tissue is problematic. Not recommended for western blotting applications. Mouse monoclonal antibody M-1752-100 or rabbit polyclonal antibody R-1751-50 are excellent alternatives for western blotting. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	This antiserum shows a high level of specificity for c-FOS confirmed by immunohistochemistry.
Cross-reactivity:	This antiserum is known to react with rat and rabbit and hamster cFOS.
Form:	Lyophilised
Reconstitution:	Reconstitute in 500 uL of sterile water. Centrifuge to remove any insoluble material.
Storage:	After reconstitution keep aliquots at -20C for a higher stability, and at 2-8C with an appropriate

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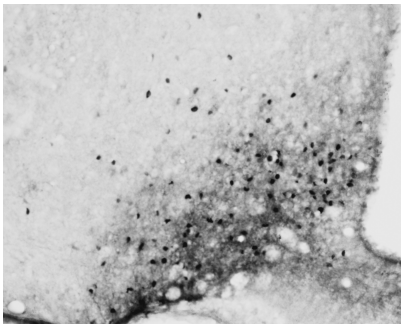
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antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.

Expiry Date: 12 months after purchase

General References: Vanstraten et al (1983) Proc. Natl. Acad. Sci. 80: 3183. Original molecular sequence paper
Minson J. et al. (1994) Brain Res. 646: 44-52. Early immunolocalization paper

References: OEM supplier to Chemicon/EMD Millipore/MilliporeSigma as Chemicon(R) AB1584 Sheep anti-c-Fos antibody since 1998. Check representative websites for publication references



cFos was induced in the hypothalamic arcuate nucleus of an adult male Wistar rat using i.p. injection of N-methyl-D-aspartate. The brain was fixed by perfusion with formalin (4%). cFos immunoreactivity was detected in floated cryo-sections of the hypothalamic arcuate nucleus with the S-033-500 primary antibody (1:30 000) using the biotinylated secondary antibody-ABC method and nickel-diaminobenzidine chromogen. Photo courtesy of Dr. Erik Hrabovszky, Hungarian Academy of Sciences, Budapest, Hungary.

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