

Sheep antibody to c-FOS (2-17): whole serum

Catalogue No.:	S-034-100
Description:	THIS PRODUCT HAS BEEN SUPERCEDED. PLEASE REFER TO THE "REPLACED BY" FIELD BELOW TO LOCATE THE CURRENT BIOSENSIS PRODUCT TO MEET YOUR RESEARCH NEEDS. 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
Replaced by:	S-033-500 IgG S-045-50 affinity purified
Batch No.:	See product label
Unit size:	100 µl
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 in 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:	Whole serum
Applications:	IH: Fixed, frozen sections preferred. Zamboni's fixative works best or PLP fixation; whole serum has higher background in paraffin sections. Key to success with c-Fos is light fixation as antibody needs to penetrate to nucleus for proper staining. This antibody is a whole serum thus background is higher and dilutions range is more limited than for IgG or affinity purified version of Sheep anti-c-Fos. 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.

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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 c-Fos.
Form:	Lyophilised
Reconstitution:	Reconstitute in 100 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
General References:	Vanstraten et al (1983) Proc. Natl. Acad. Sci. 80: 3183. Original molecular c-fos sequence paper. Minson J. et al. (1994) Brain Res. 646: 44-52 Early IH localization paper.

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