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Anti-c-FOS Antibody

Our Anti-c-FOS primary antibody from PhosphoSolutions is mouse monoclonal. It detects bovine, human,
Catalog # AN1333

Product Information

Application	WB, IHC, ICC
Primary Accession	P01100
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	2H2
Calculated MW	40695

Additional Information

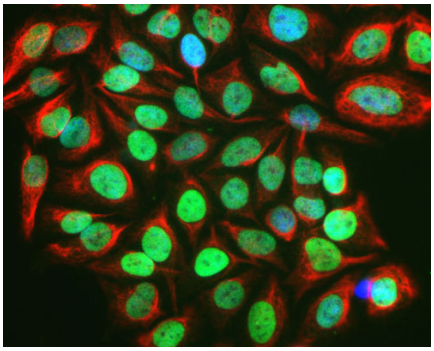
Gene ID	2353
Other Names	Activator protein 1 antibody, AP 1 antibody, C FOS antibody, Cellular oncogene c fos antibody, Cellular oncogene fos antibody, FBJ murine osteosarcoma viral (v fos) oncogene homolog (oncogene FOS) antibody, FBJ murine osteosarcoma viral oncogene homolog antibody, FBJ murine osteosarcoma viral v fos oncogene homolog antibody, FBJ Osteosarcoma Virus antibody, FOS antibody, FOS protein antibody, FOS_HUMAN antibody, G0 G1 switch regulatory protein 7 antibody, G0/G1 switch regulatory protein 7 antibody, G0S7 antibody, Oncogene FOS antibody, p55 antibody, proto oncogene c Fos antibody, Proto oncogene protein c fos antibody, Proto-oncogene c-Fos antibody, fos FBJ murine osteosarcoma viral oncogene homolog antibody
Target/Specificity	c-FOS is a member of the FOS transcription factor family which forms dimers with c-JUN to produce the Activator Protein 1 (AP-1) complex which plays a key role in critical cellular processes such as cell proliferation, differentiation and apoptosis (Chiu et al., 1988). c-FOS expression has been demonstrated to be a useful marker of neuronal activation as it is rapidly induced following various stimuli (Hoffman et al., 1993). Additionally, c-FOS has been shown to be overexpressed in a variety of malignant tumor types (Milde-Langosch 2005).
Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A
Format	Protein G Purified
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-c-FOS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping	Blue Ice

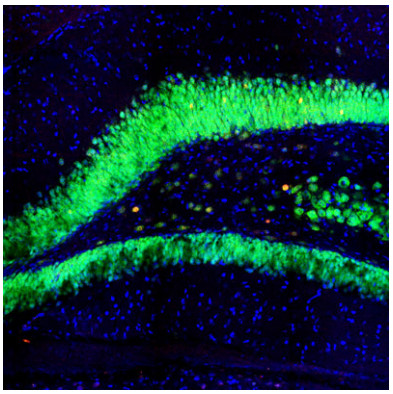
Background

c-FOS is a member of the FOS transcription factor family which forms dimers with c-JUN to produce the Activator Protein 1 (AP-1) complex which plays a key role in critical cellular processes such as cell proliferation, differentiation and apoptosis (Chiu et al., 1988). c-FOS expression has been demonstrated to be a useful marker of neuronal activation as it is rapidly induced following various stimuli (Hoffman et al., 1993). Additionally, c-FOS has been shown to be overexpressed in a variety of malignant tumor types (Milde-Langosch 2005).

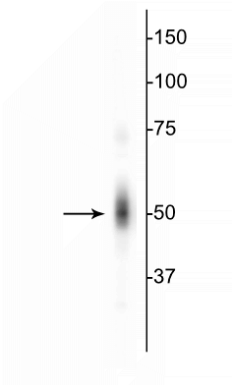
Images



Immunofluorescence of serum starved, FBS stimulated HeLa cells showing nuclear labeling of activated cells with Anti- c-FOS (cat. AN1333, 1:1000, green) while Anti-Vimentin (cat. 2105-VIM, 1:500, red) labels the cytoplasmic intermediate filament, and nuclear staining with DAPI (blue).

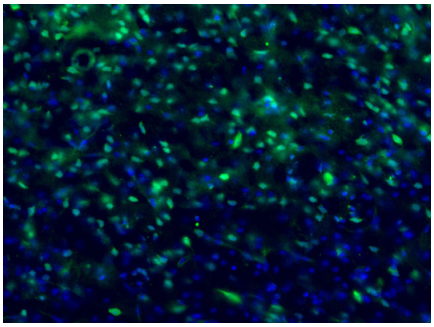


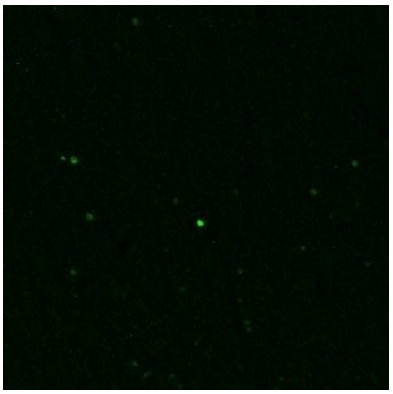
Immunofluorescence of a section of rat hippocampus showing neurons labeled with c-FOS (cat. AN1333, 1:1000, red) counterstained with FOX3(NeuN) (green), and nuclear staining with DAPI. When both c-FOS and FOX3 are expressed the label appears orange.



Western blot of HeLa cell lysate showing specific immunolabeling of the ~50 kDa c-FOS protein.

Immunostaining of mouse brain labeling c-Fos protein in green(cat. AN1333, 1:1000) and DNA with DAPI. Photo courtesy of Adam Almeida, University of Colorado.





Immunolabeling of a section of rat brain that specifically labels c-FOS protein(cat. AN1333, green, 1:1000). Frozen sections were fixed with 4%PFA for 24 hours. Before performing free floating immunohistochemistry, sections underwent antigen retrieval with sodium citrate (pH6.0) for 30 minutes at 80˚C. Image kindly provided by Angela Gonzalez, Washington State University, Vancouver.