


## Product datasheet

# Anti-c-Fos antibody ab156802

★★★★☆ 6 Abreviews 4 References 2 Images

### Overview

<b>Product name</b>	Anti-c-Fos antibody
<b>Description</b>	Goat polyclonal to c-Fos
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> ICC
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow, Cat, Dog, Pig, Carp 
<b>Immunogen</b>	Synthetic peptide, conjugated to Blue Carrier Protein by a Cysteine residue linker, corresponding to internal sequence amino acids 283-295 of Human c-Fos (NP_005243.1). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	ICC: HeLa and MCF7 cells
<b>General notes</b>	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.  If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab156802 was purified from goat serum by ammonium sulphate precipitation, followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab156802 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use a concentration of 10 µg/ml.

## Target

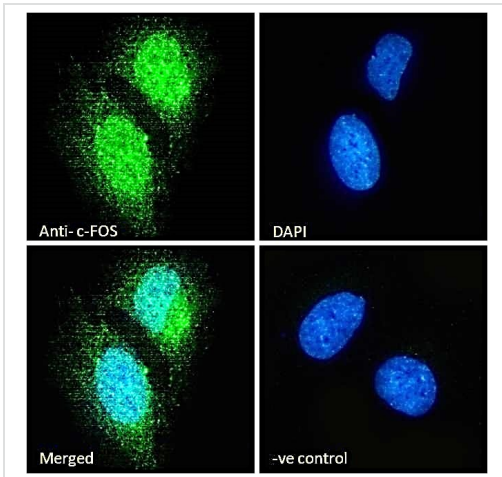
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<b>Function</b>	Nuclear phosphoprotein which forms a tight but non-covalently linked complex with the JUN/AP-1 transcription factor. In the heterodimer, FOS and JUN/AP-1 basic regions each seems to interact with symmetrical DNA half sites. On TGF-beta activation, forms a multimeric SMAD3/SMAD4/JUN/FOS complex at the AP1/SMAD-binding site to regulate TGF-beta-mediated signaling. 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.
<b>Sequence similarities</b>	Belongs to the bZIP family. Fos subfamily. Contains 1 bZIP domain.
<b>Post-translational modifications</b>	Phosphorylated in the C-terminal upon stimulation by nerve growth factor (NGF) and epidermal growth factor (EGF). Phosphorylated, in vitro, by MAPK and RSK1. Phosphorylation on both Ser-362 and Ser-374 by MAPK1/2 and RSK1/2 leads to protein stabilization with phosphorylation on Ser-374 being the major site for protein stabilization on NGF stimulation. Phosphorylation on Ser-362 and Ser-374 primes further phosphorylations on Thr-325 and Thr-331 through promoting docking of MAPK to the DEF domain. Phosphorylation on Thr-232, induced by HA-RAS, activates the transcriptional activity and antagonizes sumoylation. Phosphorylation on Ser-362 by RSK2 in osteoblasts contributes to osteoblast transformation. Constitutively sumoylated by SUMO1, SUMO2 and SUMO3. Desumoylated by SENP2. Sumoylation requires heterodimerization with JUN and is enhanced by mitogen stimulation. Sumoylation inhibits the AP-1 transcriptional activity and is, itself, inhibited by Ras-activated phosphorylation on Thr-232.
<b>Cellular localization</b>	Nucleus.

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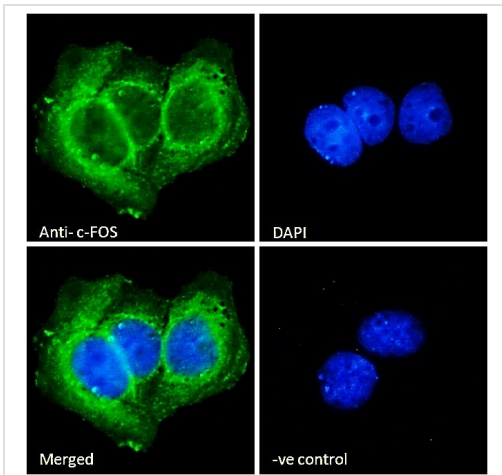
## Images

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Immunocytochemistry - Anti-c-Fos antibody  
(ab156802)

Immunocytochemistry analysis of HeLa cells labeling c-Fos antibody with ab156802 at 10 µg/mL (1 hour incubation). Cells were fixed with paraformaldehyde and permeabilized with 0.15% Triton. Alexa Fluor 488 2 µg/mL was used as the secondary antibody. It is showing strong nuclear and weak cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG at 10 µg/mL followed by Alexa Fluor 488 secondary antibody 2 µg/mL.



Immunocytochemistry - Anti-c-Fos antibody  
(ab156802)

Immunocytochemistry analysis of MCF7 cells labeling c-Fos antibody with ab156802 at 10 µg/mL (1 hour incubation). Cells were fixed with paraformaldehyde and permeabilized with 0.15% Triton. Alexa Fluor 488 2 µg/mL was used as the secondary antibody. It is showing strong nuclear and weak cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG at 10 µg/mL followed by Alexa Fluor 488 secondary antibody 2 µg/mL.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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