abcam

Product datasheet

FITC Anti-c-Fos antibody [H15-S] ab175647

1 References 1 Image

Overview

Product name	FITC Anti-c-Fos antibody [H15-S]
Description	FITC Rabbit monoclonal [H15-S] to c-Fos
Host species	Rabbit
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human c-Fos (C terminal).
Epitope	Antibody detects the linear epitope at the C-terminus of human c-FOS
Positive control	Human peripheral blood lymphocytes.
General notes	The monospecific product was conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC and unconjugated antibody. 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

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer	pH: 7.50 Preservative: 0.05% Sodium azide Constituents: 1% BSA, 0.33% Sodium phosphate Aqueous buffer
Purification notes	This immunoglobulin is the product of one single B-cell line from the crude anti-peptide polyclonal

	anti-serum. This antibody is purified using a propriety technique and offers a completely post-translationally modified and properly glycosylated antibody. This offers increased stability.
Clonality	Monoclonal
Clone number	H15-S
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab175647 in the following tested applications.

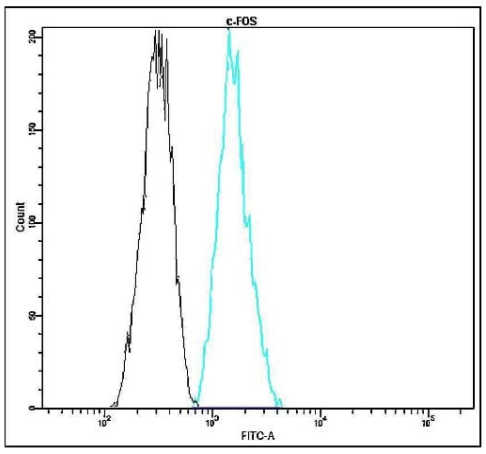
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 10µl for 10^6 cells. (in a 100 µl experimental sample).

Target

Function	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.
Sequence similarities	Belongs to the bZIP family. Fos subfamily. Contains 1 bZIP domain.
Post-translational modifications	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.
Cellular localization	Nucleus.

Images



Flow Cytometry - FITC Anti-c-Fos antibody [H15-S] (ab175647)

Flow cytometric analysis of permeabilized Human peripheral blood lymphocytes labeling c-Fos with ab175647 at 10µl/1 x 10^6 cells (blue) compared with an isotype control (black).

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