



Mouse Monoclonal Antibody **c-Fos** conjugated to Sepharose Beads

CatalogNo: **ANT8289-S**

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

c-Fos (ANT0051R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Host Species

- Rabbit
- Human, Mouse, Rat,

Reactivity

- WB, IF, IP, ELISA

Applications

MW

- 41kD (Calculated)
- 55kD (Observed)
- IgG, Kappa

Isotype

Recommended Dilution Ratios

IP

Basic Information

Clonality	Monoclonal
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Clone Number	ANT0051R
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Immunogen Information

Specificity	Endogenous
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Target Information

Gene name FOS
Protein Name Proto-oncogene c-Fos

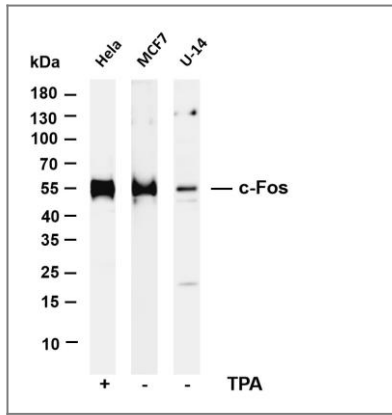
Organism	Gene ID	UniProt ID
Human	2353 ;	P01100 ;
Mouse	14281 ;	P01101 ;
Rat	140675 ;	P12841 ;

Cellular Localization Nucleus

Tissue specificity Lung adenocarcinoma,Pancreas,Tongue,

Function: Nuclear phosphoprotein which forms a tight but non-covalently linked complex with the JUN/AP-1 transcription factor. In the heterodimer, c-fos and JUN/AP-1 basic regions each seems to interact with symmetrical DNA half sites. 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.,ANTM: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.,PTM: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 HARAS, activates the transcriptional activity and antagonizes sumoylation. Phosphorylation on Ser-362 by RSK2 in osteoblasts contributes to osteoblast transformation.,similarity:Belongs to the bZIP family.,similarity:Belongs to the bZIP family. Fos subfamily.,similarity:Contains 1 bZIP domain.,subunit:Heterodimer with JUN. Interacts with DSIP1; this interaction inhibits the binding of active AP1 to its target DNA. Interacts with MAFB.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-c-Fos (ANT0051R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa treated by Phorbol 12-myristate 13-acetate(TPA) with 24 hours Lane 2: MCF7 Lane 3: U-14 Predicted band size: 41kDa Observed band size: 55kDa

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