

C-Fos (PTR1390) Mouse mAb

CatalogNo: YM4250

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat,

Applications

- WB, IF, ELISA

MW

- 40kD (Calculated)
62kD (Observed)

Recommended Dilution Ratios

WB 1:500-2000

IF 1:100-500

ELISA 1:1000-5000

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Basic Information

Clonality Monoclonal

Clone Number PTR1390

Immunogen Information

Immunogen AA range: 200-300

Specificity This antibody detects endogenous levels of C-Fos protein.

| Target Information

Gene name FOS

Protein Name Proto-oncogene c-Fos

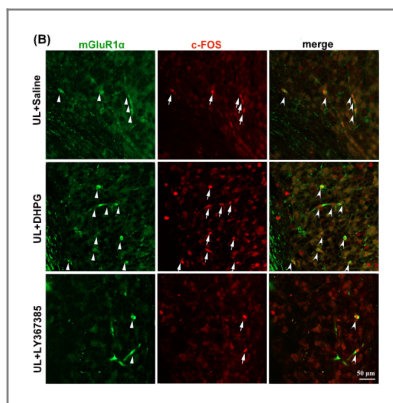
Organism	Gene ID	UniProt ID
Human	2353 ;	P01100 ;
Mouse	14281 ;	P01101 ;
Rat	140675 ;	P12841 ;

Cellular Localization Nucleus, Cytoplasm

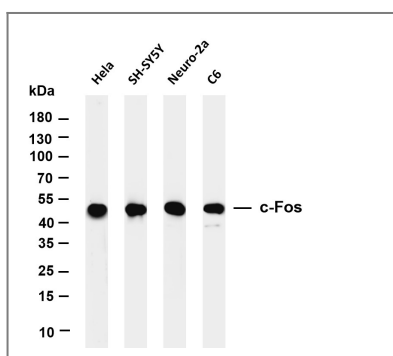
Tissue specificity Lung adenocarcinoma,Pancreas,Tongue,

Function 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.,PTM: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 HA-RAS, 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 DSIPI; this interaction inhibits the binding of active AP1 to its target DNA. Interacts with MAFB.,

| Validation Data



mGluR1/IP3/ERK signaling pathway regulates vestibular compensation in ON UBCs of the cerebellar flocculus. CNS Neuroscience & Therapeutics Sulin Zhang IF Rat 1:200 cerebellum



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-c-Fos (PTR1390) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: SH-SY5Y Lane 3: Neuro-2a Lane 4: C6 Predicted band size: 40kDa Observed band size: 50kDa

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Please scan the QR code to access additional product information:
C-Fos (PTR1390)
Mouse mAb

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