

c-Fos (H-125): sc-7202



The Power to Question

BACKGROUND

The c-Fos oncogene was initially detected in two independent murine osteosarcoma virus isolate and an avian nephroblastoma virus. The cellular homolog, c-Fos, encodes a nuclear phosphoprotein that is rapidly and transiently induced by a variety of agents and functions as a transcriptional regulator for several genes. In contrast to c-Jun proteins which form homo- and heterodimers which bind to specific DNA response elements, c-Fos proteins are only active as heterodimers with members of the Jun gene family. Functional homologs of c-Fos include Fra-1, Fra-2 and Fos B genes. In addition, selected ATF/CREB family members can form leucine zipper dimers with Fos and Jun. Different dimers exhibit differential specificity and affinity for AP-1 and CRE sites.

CHROMOSOMAL LOCATION

Genetic locus: FOS (human) mapping to 14q24.3; Fos (mouse) mapping to 12 D2.

SOURCE

c-Fos (H-125) is a rabbit polyclonal antibody raised against amino acids 210-335 mapping at the C-terminus of c-Fos of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-7202 X, 200 µg/0.1 ml.

APPLICATIONS

c-Fos (H-125) is recommended for detection of c-Fos of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

c-Fos (H-125) is also recommended for detection of c-Fos in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for c-Fos siRNA (h): sc-29221, c-Fos siRNA (m): sc-29222, c-Fos shRNA Plasmid (h): sc-29221-SH, c-Fos shRNA Plasmid (m): sc-29222-SH, c-Fos shRNA (h) Lentiviral Particles: sc-29221-V and c-Fos shRNA (m) Lentiviral Particles: sc-29222-V.

c-Fos (H-125) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of c-Fos: 62 kDa.

Positive Controls: HeLa + serum-starved cell lysate: sc-24693, A-431 nuclear extract: sc-2122 or Jurkat + PMA nuclear extract: sc-2133.

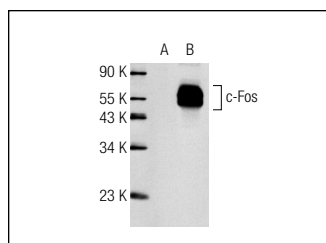
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

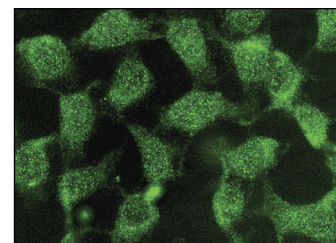
RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



c-Fos (H-125): sc-7202. Western blot analysis of c-Fos expression in nuclear extracts prepared from untreated (A) and PMA-treated (B) Jurkat cells.



c-Fos (H-125): sc-7202. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and cytoplasmic localization.

SELECT PRODUCT CITATIONS

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- Lappano, R., et al. 2012. MIBE acts as antagonist ligand of both estrogen receptor α and GPER in breast cancer cells. *Breast Cancer Res.* 14: R12.
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MONOS
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Try **c-Fos (E-8): sc-166940** or **c-Fos (C-10): sc-271243**, our highly recommended monoclonal alternatives to c-Fos (H-125). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **c-Fos (E-8): sc-166940**.