c-Fos (D-1): sc-8047

**BACKGROUND**

The c-Fos oncopogene was initially detected in two independent murine osteosarcoma virus isolates and an avian nephroblastoma virus. The cellular homolog, c-Fos, encodes a nuclear phospho-protein 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 homodimers 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 the 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 (D-1) is a mouse monoclonal antibody raised against amino acids 210-335 mapping at the C-terminus of c-Fos of human origin.

**PRODUCT**

Each vial contains 200 µg IgGk, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-8047 X, 200 µg/0.1 ml.

c-Fos (D-1) is available conjugated to either Alexa Fluor® 546 (sc-8047 AF546) or Alexa Fluor® 594 (sc-8047 AF594), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-8047 AF680) or Alexa Fluor® 790 (sc-8047 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

c-Fos (D-1) 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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 (D-1) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of c-Fos: 62 kDa.

Positive Controls: HeLa + PMA cell lysate: sc-2258, A-431 whole cell lysate: sc-2201 or A-431 nuclear extract: sc-2122.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**DATA**

![c-Fos (D-1): sc-8047. Western blot analysis of c-Fos expression in HeLa treated PMA whole cell lysate.](image1)

![c-Fos (D-1): sc-8047. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing nuclear staining of glandular cells (B).](image2)

**RESEARCH USE**

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