**BACKGROUND**

The c-Fos oncogene 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 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 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.

**REFERENCES**


**SOURCE**

c-Fos (4-10G) is a mouse monoclonal antibody epitope mapping between amino acids 1-111 at the N-terminus of c-Fos of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a 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-413 X, 200 µg/0.1 ml.

c-Fos (4-10G) is available conjugated to agarose (sc-413AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-413 HR P), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-413PE), fluorescein (sc-413FITC), Alexa Fluor® 488 (sc-413 AF488), Alexa Fluor® 546 (sc-413 AF546), Alexa Fluor® 594 (sc-413 AF594) or Alexa Fluor® 647 (sc-413 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-413 AF680) or Alexa Fluor® 790 (sc-413 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

c-Fos (4-10G) is recommended for detection of c-Fos, Fos B, Fra-1 and Fra-2 of mouse, rat and human origin by immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

c-Fos (4-10G) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of c-Fos: 62 kDa.


**RESEARCH USE**

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

**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 (4-10G): sc-413. Western blot analysis of human recombinant c-Fos immunoprecipitated with c-Fos (4-10G): sc-413 and detected with c-Fos (K-25): sc-253.
- c-Fos (4-10G): sc-413. Western blot analysis of human recombinant c-Fos immunoprecipitated with c-Fos (4-10G): sc-413 and detected with c-Fos (K-25): sc-253.

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.