

Fra-1 (K-18): sc-69272

BACKGROUND

The v-Fos oncogene was initially detected in two independent murine osteosarcoma virus isolates and an avian nephroblastoma virus. Members of the c-Fos gene family, including c-Fos, Fos B, Fra-1 and Fra-2, encode nuclear phosphoproteins that are rapidly and transiently induced by a variety of agents and function as transcriptional regulators 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. 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

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CHROMOSOMAL LOCATION

Genetic locus: FOSL1 (human) mapping to 11q13.1.

RESEARCH USE

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

SOURCE

Fra-1 (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Fra-1 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.

Blocking peptide available for competition studies, sc-69272 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-69272 X, 200 µg/0.1 ml.

APPLICATIONS

Fra-1 (K-18) is recommended for detection of Fra-1 of human and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Fra-1 (K-18) is also recommended for detection of Fra-1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Fra-1 siRNA (h): sc-35405, Fra-1 shRNA Plasmid (h): sc-35405-SH and Fra-1 shRNA (h) Lentiviral Particles: sc-35405-V.

Fra-1 (K-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Fra-1: 40 kDa.

Positive Controls: U-937 cell lysate: sc-2239, HeLa nuclear extract: sc-2120 or 3611-RF whole cell lysate: sc-2215.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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



Try **Fra-1 (D-3): sc-376148** or **Fra-1 (C-12): sc-28310**, our highly recommended monoclonal alternatives to Fra-1 (K-18). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **Fra-1 (D-3): sc-376148**.