ATF-6α (F-7): sc-166659

**BACKGROUND**

ATF-6 is a member of the basic leucine zipper family of transcription factors. Endoplasmic reticulum stress causes cleavage of transmembrane ATF-6 and translocation of active ATF-6 to the nucleus. Soluble ATF-6 can exist as either an ATF-6β homodimer or an ATF-6αβ heterodimer. Binding of the ATF-6β homodimer or ATF-6αβ heterodimer to the nuclear transcription factor YC (NF-YC) induces ER chaperone transcription.

**CHROMOSOMAL LOCATION**

Genetic locus: ATF6 (human) mapping to 1q23.3; Atf6 (mouse) mapping to 1H3.

**SOURCE**

ATF-6α (F-7) is a mouse monoclonal antibody raised against amino acids 31-310 of ATF-6 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-166659 X, 200 µg/0.1 ml.

ATF-6α (F-7) is available conjugated to agarose (sc-166659 AC), 500 µg/ml for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-166659 PE), fluorescein (sc-166659 FITC), Alexa Fluor® 488 (sc-166659 AF488) or Alexa Fluor® 647 (sc-166659 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

ATF-6α (F-7) is recommended for detection of ATF-6α of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 ATF-6α siRNA (h): sc-37699, ATF-6α siRNA (m): sc-45950, ATF-6α shRNA Plasmid (h): sc-37699-SH, ATF-6α shRNA Plasmid (m): sc-45950-SH, ATF-6α shRNA (h) Lentiviral Particles: sc-37699-V and ATF-6α shRNA (m) Lentiviral Particles: sc-45950-V.

ATF-6α (F-7) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ATF-6α: 90 kDa.

Positive Controls: MIA PaCa-2 cell lysate: sc-2285, MDA-MB-231 cell lysate: sc-2232 or MCF7 nuclear extract: sc-2149.

**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**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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