

ATF-6 α (H-280): sc-22799

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-6 β homodimer or an ATF-6 α / β heterodimer. Binding of the ATF-6 β homodimer or ATF-6 α / β heterodimer to the nuclear transcription factor Y C (NF-YC) induces ER chaperone transcription.

CHROMOSOMAL LOCATION

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

SOURCE

ATF-6 α (H-280) is a rabbit polyclonal antibody raised against amino acids 31-310 of ATF-6 of human origin.

PRODUCT

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

Available as agarose conjugate for immunoprecipitation, sc-22799 AC, 500 μ g/0.25 ml agarose in 1 ml.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-22799 X, 200 μ g/0.1 ml.

APPLICATIONS

ATF-6 α (H-280) is recommended for detection of ATF-6 α of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

ATF-6 α (H-280) is also recommended for detection of ATF-6 α in additional species, including equine and canine.

Suitable for use as control antibody for ATF-6 α siRNA (h): sc-37699, ATF-6 α siRNA (m): sc-45950, ATF-6 α shRNA Plasmid (h): sc-37699-SH, ATF-6 α shRNA Plasmid (m): sc-45950-SH, ATF-6 α shRNA (h) Lentiviral Particles: sc-37699-V and ATF-6 α shRNA (m) Lentiviral Particles: sc-45950-V.

ATF-6 α (H-280) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ATF-6 α : 90 kDa.

Positive Controls: c4 whole cell lysate: sc-364186, rat liver extract: sc-2395 or MCF7 nuclear extract: sc-2149.

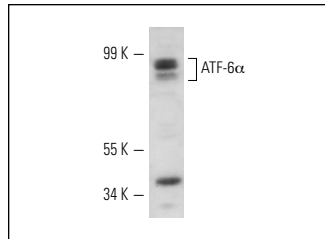
STORAGE

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



ATF-6 α (H-280): sc-22799. Western blot analysis of ATF-6 α expression in MCF7 nuclear extract.

SELECT PRODUCT CITATIONS

- Kubisch, C.H., et al. 2006. Early activation of endoplasmic reticulum stress is associated with Arginine-induced acute pancreatitis. *Am. J. Physiol. Gastrointest. Liver Physiol.* 291: G238-G245.
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- Liu, X.A., et al. 2012. Expression of the hyperphosphorylated τ attenuates ER stress-induced apoptosis with upregulation of unfolded protein response. *Apoptosis* 17: 1039-1049.
- Jiménez-Castro, M.B., et al. 2012. Tauroursodeoxycholic acid affects PPAR γ and TLR4 in Steatotic liver transplantation. *Am. J. Transplant.* 12: 3257-3271.

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