Product datasheet

Anti-ATF2 Antibody

Catalog Number: *A00916-2*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-ATF2 Antibody
Gene Name	ATF2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human ATF2 recombinant protein (Position: M1-H454).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	65-75 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

ATF2, also known as Activating transcription factor 2, is a protein that in humans is encoded by the ATF2 gene. It is mapped to 2q31.1. This gene encodes a transcription factor that is a member of the leucine zipper family of DNA-binding proteins. This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. The protein forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent transcription. The protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro, thus, it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. Additional transcript variants have been identified but their biological validity has not been determined.

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Selected Validation Data

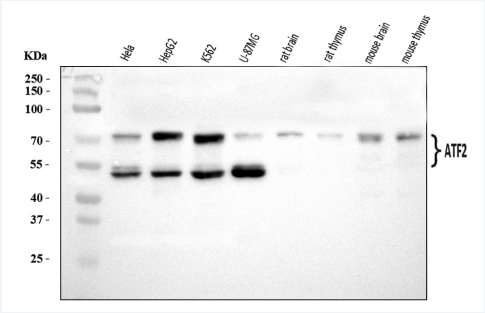

Figure 1. Western blot analysis of anti- ATF2 Antibody (A00916-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: Hela whole cell lysates.
Lane 2: HepG2 whole cell lysates,
Lane 3: K562 whole cell lysates,
Lane 4: U-87MG whole cell lysates,
Lane 5: rat brain tissue lysates,
Lane 6: rat thymus tissue lysates,
Lane 7: mouse brain tissue lysates,
Lane 8: mouse thymus tissue lysates.
Use rabbit anti- ATF2 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for ATF2 at approximately 65KD-75KD. The expected band size for ATF2 is at 55KD.

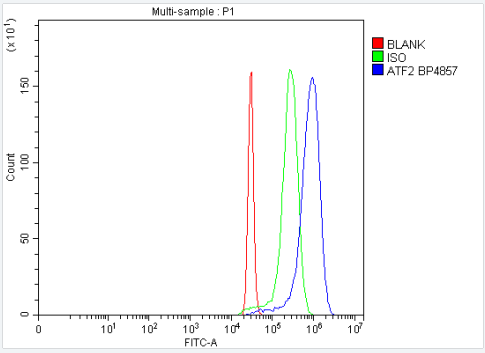

Figure 2. Flow Cytometry analysis of Hela cells using anti-ATF2 antibody (A00916-2).
Overlay histogram showing Hela cells stained with A00916-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ATF2 Antibody (A00916-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.