Product datasheet

Anti-ATF2 Antibody

Catalog Number: *BA0653*

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Basic Information

Product Name	Anti-ATF2 Antibody
Gene Name	ATF2
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human ATF2 recombinant protein (Position: E93-E450). Human ATF2 shares 99% amino acid (aa) sequence identity with both mouse and rat ATF2.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	65-75KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

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.

Selected Validation Data

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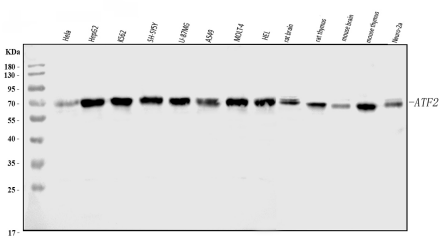

Figure 1. Western blot analysis of anti-ATF2 antibody (BA0653). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: HELA whole cell lysates,
Lane 2: HEPG2 whole cell lysates,
Lane 3: K562 whole cell lysates,
Lane 4: SH-SY5Y whole cell lysates,
Lane 5: U-87MG whole cell lysates,
Lane 6: A549 whole cell lysates,
Lane 7: MOLT4 whole cell lysates,
Lane 8: HEL whole cell lysates,
Lane 9: rat brain tissue lysates,
Lane 10: rat thymus tissue lysates,
Lane 11: mouse brain tissue lysates,
Lane 12: mouse thymus tissue lysates,
Lane 13: Neuro-2a whole cell 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 75KD. The expected band size for ATF2 is at 55KD.

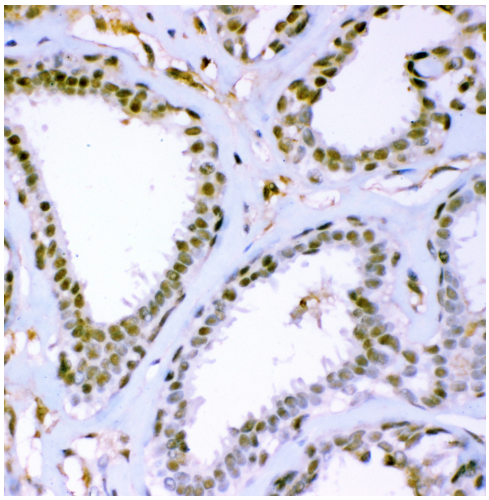

Figure 2.IHC analysis using anti- ATF2 antibody (BA0653). detected in paraffin-embedded section of human breast cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.