

Rabbit Cyclic AMP-dependent transcription factor ATF-2 Polyclonal Antibody | anti-ATF2 antibody

Anti-ATF2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11634	Rabbit	Human, Mouse, Rat. No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, Immunohistochemistry

PRODUCT SYNONYMS

Cyclic AMP-dependent transcription factor ATF-2; Polyclonal Antibody; Anti-ATF2 Antibody; Activating Transcription Factor 2 antibody; Activating transcription factor 2 splice variant ATF2 var2 antibody; ATF 2 antibody; Atf-2 antibody; Atf2 antibody; ATF2 protein antibody; ATF2_HUMAN antibody; cAMP Response Element Binding Protein 2 antibody; cAMP response element binding protein CRE BP1 antibody; cAMP response element-binding protein CRE-BP1 antibody; cAMP responsive element binding protein 2; formerly antibody; cAMP-dependent transcription factor ATF-2 antibody; cAMP-responsive element-binding protein 2 antibody; CRE BP1 antibody; CRE-BP antibody; CREB 2 antibody; CREB-2 antibody; CREB2 antibody; CREBP1 antibody; Cyclic AMP dependent transcription factor ATF 2 antibody; Cyclic AMP-dependent transcription factor ATF-2 antibody; Cyclic AMP-responsive element-binding protein 2 antibody; D130078H02Rik antibody; D18875 antibody; HB 16 antibody; HB16 antibody; Histone acetyltransferase ATF2 antibody; MGC105211 antibody; MGC105222 antibody; MGC111558 antibody; MGC142504 antibody; mXBP antibody; MXBP protein antibody; Tg(Gzma-Klra1)7Wum antibody; TREB 7 antibody; TREB7 antibody; activating transcription factor 2; anti-ATF2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat. No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	505
Applicable Applications for anti-ATF2 antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Application Notes	Western Blot: Concentration: 0.1-0.5µg/ml; Tested Species: Human, Rat Immunohistochemistry (Paraffin-embedded Section): Concentration: 0.5-1µg/ml; Tested Species: Human, Mouse, Rat Immunohistochemistry (Frozen Section): Concentration: 0.5-1µg/ml; Tested Species: Rat
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500µg/ml.
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.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of HepG2 cells using anti-ATF2 antibody (AAA11634).Overlay histogram showing HepG2 cells stained with AAA11634 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ATF2 Antibody (AAA11634,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of K562 cells using anti-ATF2 antibody (AAA11634).Overlay histogram showing K562 cells stained with AAA11634 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ATF2 Antibody (AAA11634,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight @488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 6. IHC analysis of ATF2 using anti-ATF2 antibody (AAA11634).ATF2 was detected in frozen section of mouse brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ATF2 Antibody (AAA11634) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of ATF2 using anti-ATF2 antibody (AAA11634).ATF2 was detected in frozen section of rat brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ATF2 Antibody (AAA11634) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of ATF2 using anti-ATF2 antibody (AAA11634).ATF2 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ATF2 Antibody (AAA11634) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of ATF2 using anti-ATF2 antibody (AAA11634).ATF2 was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ATF2 Antibody (AAA11634) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-ATF2 antibody	Description: Rabbit IgG polyclonal antibody for Cyclic AMP-dependent transcription factor ATF-2(ATF2) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: 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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NCBI AND UNIPROT INFORMATION

NCBI GI #	368711269
NCBI GeneID	1386
NCBI Accession #	NP_001243019.1
NCBI GenBank Nucleotide #	NM_001256090.1
UniProt Accession #	P15336; Q13000; Q3B7B7; Q4ZFU9; Q53RY2; Q8TAR1; A1L3Z2; A4D7U4; A4D7U5; A4D7V1; D3DPE9; G8JLM5

Molecular Weight	15,409 Da
NCBI Official Full Name	cyclic AMP-dependent transcription factor ATF-2 isoform 1
NCBI Official Synonym Full Names	activating transcription factor 2
NCBI Official Symbol	ATF2
NCBI Official Synonym Symbols	HB16; CREB2; TREB7; CREB-2; CRE-BP1
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-2; histone acetyltransferase ATF2; cAMP-dependent transcription factor ATF-2; cAMP-responsive element-binding protein 2; cAMP response element-binding protein CRE-BP1; cyclic AMP-responsive element-binding protein 2; cAMP responsive element binding protein 2, formerly; activating transcription factor 2 splice variant ATF2-var2
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-2
UniProt Gene Name	ATF2
UniProt Synonym Gene Names	CREB2; CREBP1; cAMP-dependent transcription factor ATF-2; CREB-2; cAMP-responsive element-binding protein 2
UniProt Entry Name	ATF2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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