

Product datasheet for AP02573PU-N

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ATF2 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, IHC, WB

Recommended Dilution: Western Blot: 1/500 - 1/1000; Incubate membrane with diluted antibody in 5% nonfat milk,

1X TBS, 0,1% Tween-20 at 4°C with gentle shaking, overnight. **Immunohistochemistry on paraffin sections:** 1/50 - 1/100.

Immunofluorescence: 1/100 - 1/200.

Reactivity: Human, Mouse

Host: Rabbit

Clonality: Polyclonal

Immunogen: Synthetic non-phosphopeptide derived from human ATF-2 around the phosphorylation site

of threonine 71 or 53 (T-P-TP-P-T).

Specificity: ATF-2 antibody detects endogenous levels of total ATF-2 protein.

Formulation: PBS(without Mg2+ and Ca2+), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50%

glycerol

State: Aff - Purified

State: Liquid purified IgG fraction

Concentration: lot specific

Purification: Affinity chromatography

Conjugation: Unconjugated

Storage: Store the antibody at -20°C.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: activating transcription factor 2

Database Link: Entrez Gene 1386 Human

P15336





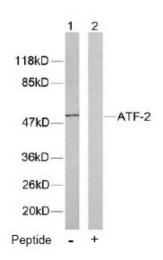
Background:

ATF2 (Activating Transcription Factor 2, CREBP, HB16, CREB2, TREB7) is a member of the ATF/CREB family of basic region leucine zipper DNA binding proteins that regulates transcription by binding to a consensus cAMP response element (CRE) in the promoter of various viral and cellular genes. Many of these genes are important in cell growth and differentiation, and in stress and immune responses. ATF2 is a nuclear protein that binds DNA as a dimer and can form dimers with members of the ATF/CREB and Jun/Fos families. It is a stronger activator as a heterodimer with cJun than as a homodimer. Several isoforms of ATF2 arise by differential splicing. The stable native full length ATF2 is transcriptionally inactive as a result of an inhibitory direct intramolecular interaction of its carboxy terminal DNA binding domain with the amino terminal transactivation domain. Following dimerization ATF2 becomes a short lived protein that undergoes ubiquitination and proteolysis, seemingly in a protein phosphatase-dependent mechanism. Stimulation of the transcriptional activity of ATF2 occurs following cellular stress induced by several genotoxic agents, inflammatory cytokines, and UV irradiation. This activation requires phosphorylation of two threonine residues in ATF2 by both JNK/SAP kinase and p38 MAP kinase. ATF2 is abundantly expressed in brain.

Synonyms:

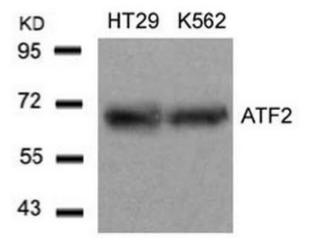
ATF-2, CREB2, CREBP1, Activating transcription factor 2, CRE-BP1, HB16, CREB-2

Product images:

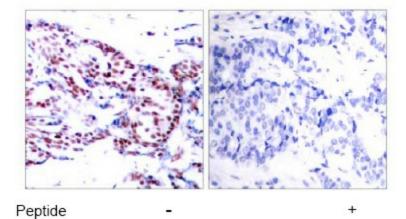


Western Blot analysis of extracts from HT29 and K562 cells using ATF2 antibody

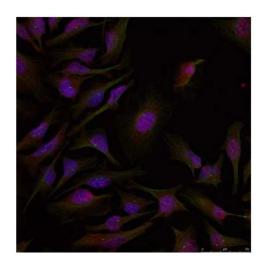




Western blot analysis of extracts from HeLa cells using ATF-2 antibody.



Immunohistochemical analysis of paraffinembedded human breast carcinoma tissue using ATF-2 antibody.



Immunuofluorescence staining of methanol-fixed HeLa cells using ATF2 antibody