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Anti-ATF2 (Ser490,498) Antibody

Our Anti-ATF2 (Ser490,498) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions

Catalog # AN1317

Specification

Anti-ATF2 (Ser490,498) Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P15336
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**54537**

Anti-ATF2 (Ser490,498) Antibody - Additional Information

Gene ID	**1386**

Other Names

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

Target/Specificity

The activating transcription factor ATF2 (also called CRE-BP1) binds to both AP-1 and CRE DNA response elements and is a member of the ATF/CREB family of leucine zipper proteins (Maekawa et al., 1989). ATF2 has been implicated in the transcriptional regulation of a number of genes including cytokines, cell cycle control and apoptosis. Various forms of cellular stress, including inflammatory cytokines and UV irradiation, stimulate the transcriptional activity of ATF2 (Ivanov et al., 2003; Morton et al., 2004). Stress induced ATFdependent transcription is dependent on phosphorylation of ATF (Fuchs et al., 2000); Morton et al., 2004). Serine 490 and serine 498 are novel phosphorylation sites on ATF that have recently been identified. ATF2 is particularly abundant in the brain and the ATF2 family of transcription factors is considered an important substrate of signals upstream of the activation of genes associated with neuronal growth and differentiation (Karin and Hunter, 1995). ATF expression has also been linked to the depression in humans (Laifenfeld et al., 2004).

Dilution

WB~~1:1000
IHC~~1:100~500

Format
Antigen Affinity Purified from Pooled Serum

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Anti-ATF2 (Ser490,498) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

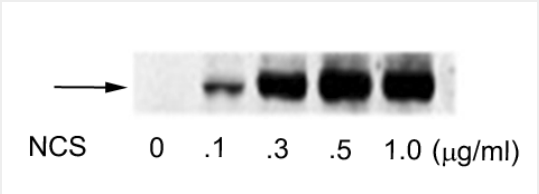
Shipping
Blue Ice

Anti-ATF2 (Ser490,498) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ATF2 (Ser490,498) Antibody - Images



Western blot of human melanoma cells incubated with varying doses of the radiomimetic drug NCS showing specific immunolabeling of the ~74 kDa ATF2 protein phosphorylated at Ser490 and Ser498.

Anti-ATF2 (Ser490,498) Antibody - Background

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