



## ATF2, ATF2 (Ser490/498) Polyclonal Antibody

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### Box 1 | Basic Info

Cat. No.	ABP-PAB-21001
Animal ID	N/A
Host	Rabbit
Reactivity	Human
Format	Affinity Purified
Accession number	N/A
Amount	100 µl

#### Alternative Name(s):

N/A

#### References:

1. Bhoumik A et al. Proc Natl Acad Sci USA (2004) 101:4222-4227.
2. Gutpa S et al. Science (1995) 267:389-393.
3. Ivanov, VN et al. (2003) Oncogene 22:3152-3161.

#### Specificity

Specific for ~74k ATF2 protein phosphorylated at Ser490,498. The antibody also recognizes the phosphorylated ~54k splice form of ATF2.

The activating transcription factor ATF-2 (also called CREB1) binds to both AP-1 and CRE DNA response elements and is a member of the ATF/CREB family of leucine zipper proteins. ATF-2 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 ATF-2. Stress induced ATF-dependent transcription is dependent on phosphorylation of ATF. Serine 490 and serine 498 are novel phosphorylation sites on ATF that have recently been identified. In addition, ATF2 is particularly abundant in the brain and the ATF2 family of transcription factors is considered important substrates of signals upstream of the activation of genes associated with neuronal growth and differentiation. ATF expression has also been linked to the depression in humans.

#### Buffers

100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.

#### Immunogen

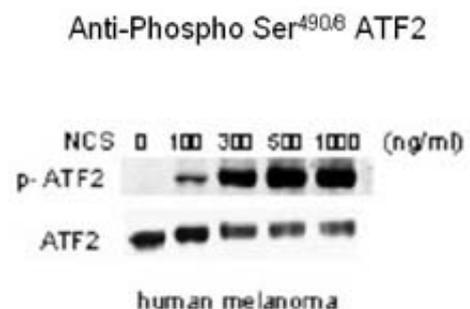
Synthetic phosphopeptide corresponding to amino acids residues surrounding the phospho Ser490,498 of human ATF2.

#### Application

WB: 1:1,000; IHC: 1:1,000.

#### Storage

For long term storage -20°C is recommended. Stable at -20°C for at least 1 year.



Western Blots. Immunolabeling of human melanoma cells incubated with varying doses of the radiomimetic drug NCS.