



## Rabbit Anti-phospho-ATF2 (Ser490/498) antibody

SL1648R

<b>Product Name:</b>	phospho-ATF2 (Ser490/498)
<b>Chinese Name:</b>	磷酸化活化复制因子2抗体
<b>Alias:</b>	ATF2 (phospho S490); p-ATF2 (phospho S490); ATF2 (phospho S490 + S498); p-ATF2 (phospho S490 + S498); CREB 2; HB 16;Activating Transcription Factor 2; ATF 2; Atf-2; ATF2 protein; cAMP Response Element Binding Protein 2; cAMP response element binding protein CRE BP1; cAMP-dependent transcription factor ATF-2; cAMP-responsive element-binding protein 2; CRE BP1; CRE-BP; CREB 2; CREB2; CREBP1; Cyclic AMP dependent transcription factor ATF 2; Cyclic AMP-responsive.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Rabbit,Guinea Pig,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	45kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated Synthesised phosphopeptide derived from human ATF2 around the phosphorylation site of Ser490/498:AL(p-S)QIVMAPS(p-S)QS
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>

ATF2 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.

**Subunit:**

Binds DNA as a dimer and can form a homodimer in the absence of DNA. Can form a heterodimer with JUN. Interacts with SMAD3 and SMAD4. Binds through its N-terminal region to UTF1 which acts as a coactivator of ATF2 transcriptional activity.

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Abundant expression seen in the brain.

**Similarity:**

Belongs to the bZIP family. ATF subfamily.

Contains 1 bZIP domain.

Contains 1 C2H2-type zinc finger.

**SWISS:**

P15336

**Gene ID:**

1386

**Database links:**

[Entrez Gene: 1386](#)Human

[Entrez Gene: 100047997](#)Mouse

[Entrez Gene: 11909](#)Mouse

**Product Detail:**

[Entrez Gene: 81647](#)Rat

[Oimim: 123811](#)Human

[SwissProt: P15336](#)Human

[SwissProt: P16951](#)Mouse

[SwissProt: Q00969](#)Rat

[Unigene: 592510](#)Human

[Unigene: 209903](#)Mouse

[Unigene: 9825](#)Rat

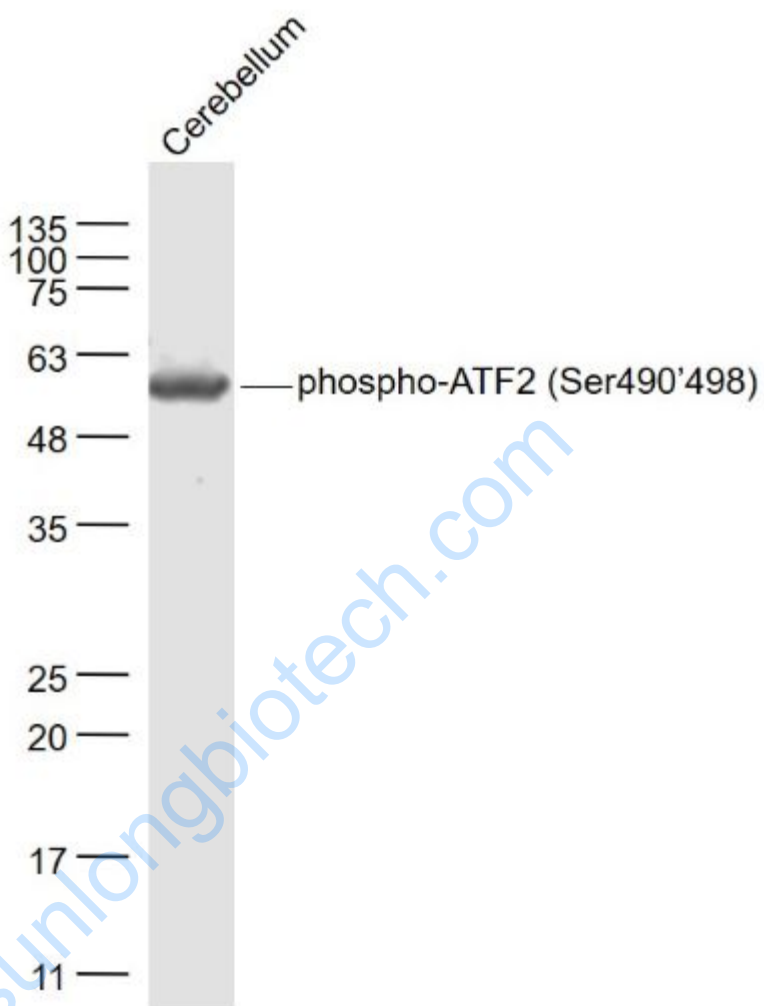
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

transcriptional regulatory factor (Transcriptin Regulators)

[www.sunlongbiotech.com](http://www.sunlongbiotech.com)

Picture:



Sample:

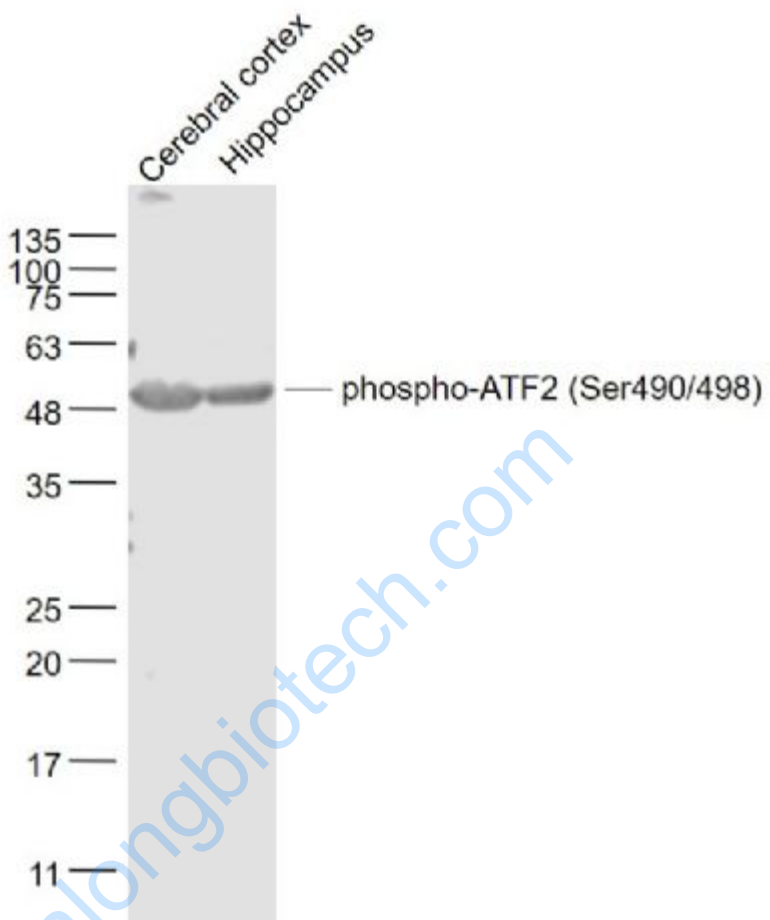
Cerebellum (Rat) Lysate at 40 ug

Primary: Anti- phospho-ATF2 (Ser490/498) (SL1648R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 45 kD

Observed band size: 54 kD



Sample:

Cerebral cortex(Mouse) Lysate at 40 ug

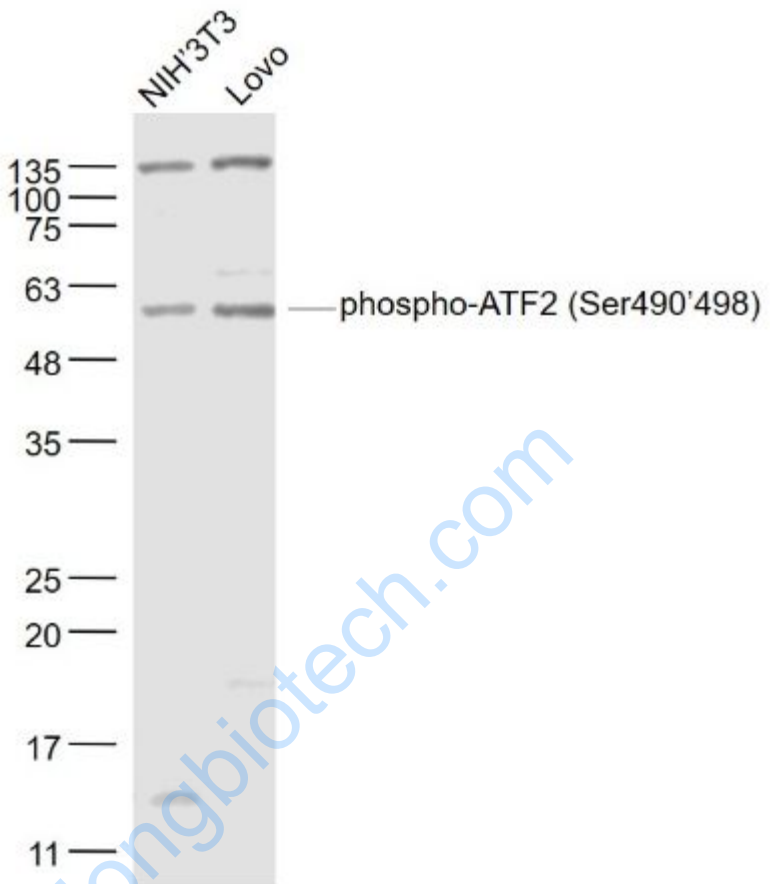
Hippocampus (Mouse) Lysate at 40 ug

Primary: Anti- phospho-ATF2 (Ser490/498) (SL1648R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 45 kD

Observed band size: 45 kD



Sample:

NIH/3T3(Mouse) Cell Lysate at 30 ug

Lovo(Human) Cell Lysate at 30 ug

Primary: Anti- phospho-ATF2 (Ser490/498) (SL1648R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 45 kD

Observed band size: 54 kD