

bs-5170R**[Primary Antibody]****phospho-ATF2 (Ser62 / Ser44) Rabbit pAb****BioSS**
ANTIBODIES

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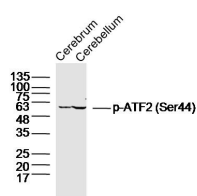
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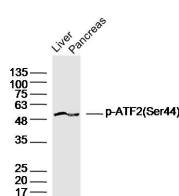
— DATASHEET —

Host: Rabbit	Isotype: IgG
Clonality: Polyclonal	
GeneID: 1386	SWISS: P15336
Target: ATF2 (Ser62 / Ser44)	
Immunogen: KLH conjugated Synthesised phosphopeptide derived from mouse ATF2 around the phosphorylation site of Ser44 / Ser62 (human): ND(p-S)VI.	
Purification: affinity purified by Protein A	
Concentration: 1mg/ml	
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.	
Background: 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.	

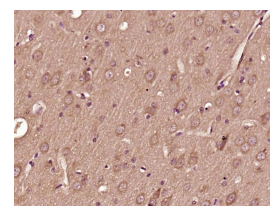
Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Cow, Chicken, Dog, Horse)
Predicted MW.: 55 kDa
Subcellular Location: Nucleus

— VALIDATION IMAGES —

Sample: Cerebrum (Mouse)Lysate at 40 ug
Cerebellum (Mouse)Lysate at 40 ug Primary:
Anti-p-ATF2 (Ser44) (bs-5170R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at
1/20000 dilution Predicted band size: 55kD
Observed band size: 55kD



Sample: Liver (Mouse)Lysate at 40 ug Pancreas
(Mouse)Lysate at 40 ug Primary: Anti-p-ATF2
(Ser44)(bs-5170R)at 1/300 dilution Secondary:
IRDye800CW Goat Anti-RabbitIgG at 1/20000
dilution Predicted band size: 55kD Observed
band size: 55kD



Paraformaldehyde-fixed, paraffin embedded
(Rat brain); Antigen retrieval by boiling in
sodium citrate buffer (pH6.0) for 15min; Block
endogenous peroxidase by 3% hydrogen
peroxide for 20 minutes; Blocking buffer (normal
goat serum) at 37°C for 30min; Antibody
incubation with (phospho-ATF2 (Ser62 Ser44))
Polyclonal Antibody, Unconjugated (bs-5170R)
at 1:500 overnight at 4°C, followed by a
conjugated secondary (sp-0023) for 20 minutes
and DAB staining.