

## ATF-4 (Phospho-Ser219) Antibody

Catalog No: #11831



Package Size: #11831-1 50ul #11831-2 100ul

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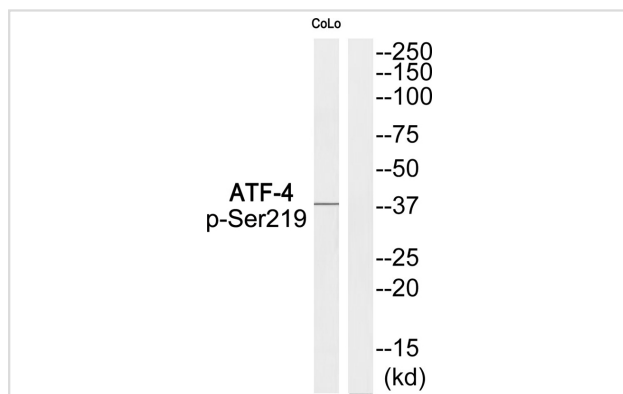
## Description

Product Name	ATF-4 (Phospho-Ser219) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu
Specificity	The Antibody detects endogenous levels of ATF-4 only when phosphorylated at Serine 219.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Serine 219 (N-D-S(p)-G-T) derived from Human ATF-4.
Target Name	ATF-4
Modification	Phospho
Other Names	ATF4; CREB-2; DNA-binding protein TAXREB67; TXREB;
Accession No.	Swiss-Prot#: P18848; NCBI Gene#: 468; NCBI Protein#: NP_001666.2.
SDS-PAGE MW	38kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

## Application Details

Western blotting: 1:500~1:1000

## Images



Western blot analysis of extracts from COLO cells using ATF-4 (Phospho-Ser219) Antibody #11831. The lane on the right is treated with the antigen-specific peptide.

## Background

ATF4 encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication.

Sato T., Shimotohno K. J. Virol. 65:1420-1426(1991)

Leiden J.M. Proc. Natl. Acad. Sci. U.S.A. 89:4820-4824(1992)

Bridgeman A.M. Wright H. Nature 402:489-495(1999)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.