

## ATF-4 (Ab-219) Antibody

Catalog No: #33307

Package Size: #33307-1 50ul #33307-2 100ul

Orders: order@signalwayantibody.com

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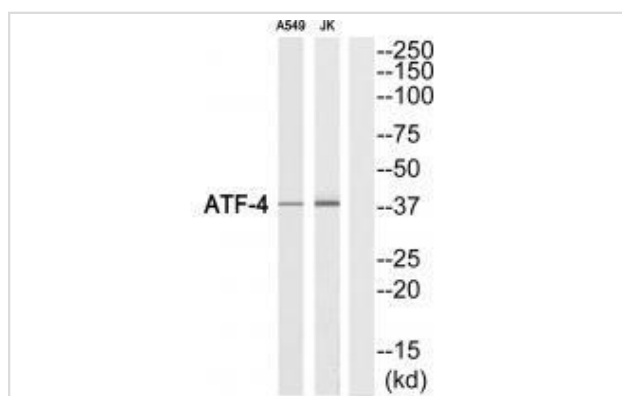
## Description

Product Name	ATF-4 (Ab-219) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total ATF4protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from C-terminal of human ATF4.
Target Name	ATF-4
Other Names	Activating transcription factor 4; activating transcription factor 4 (tax-responsive enhancer element B67); ATF4; cAMP response element-binding protein 2; cAMP-dependent transcription factor ATF-4
Accession No.	Swiss-Prot: P18848NCBI Gene ID: 468
Uniprot	P18848
GeneID	468;
SDS-PAGE MW	39kd
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

## Application Details

Western blotting: 1:500~1:3000

## Images



Western blot analysis of extracts from A549 cells and Jurkat cells, using ATF-4 (Ab-219) antibody #33307.

## Background

Transcriptional activator. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Cooperates with FOXO1 in osteoblasts to regulate glucose homeostasis through suppression of beta-cell production and decrease in insulin production. By similarity. It binds to a Tax-responsive enhancer element in the long terminal repeat of HTLV-I. Regulates the induction of DDIT3/CHOP and asparagine synthetase (ASNS) in response to ER stress. In concert with DDIT3/CHOP, activates the transcription of TRIB3 and promotes ER stress-induced neuronal apoptosis by regulating the transcriptional induction of BBC3/PUMA. Activates transcription of SIRT4.

Tsujimoto A., J. Virol. 65:1420-1426(1991).

Karpinski B.A., Proc. Natl. Acad. Sci. U.S.A. 89:4820-4824(1992).

Dunham I., Nature 402:489-495(1999).

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Note: This product is for in vitro research use only