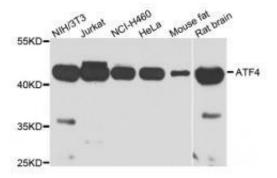


ATF4 antibody

Cat# NB-22-18091 (100 ul)



Western blot analysis of extract of various cells, using ATF4 antibody.

Description

ATF4 antibody

Product Information

Code	NB-22-18091
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB, IHC
Immunogen	Recombinant peptide derived from human ATF4
Gene ID	468 (Human)
Dilution range	WB 1:500-1:2000 / IHC 1:50-1:200
Purification	Anti-ATF4 antibody was affinity purified using immunizing peptide
Protein Name	ATF4 - Cyclic AMP-dependent transcription factor ATF-4 - ATF4 - TAXREB67 - CREB-2 - TXREB - activating transcription factor 4
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	lgG



Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.4
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Target	
Database Links	Human Entrez Gene: <u>468</u> . Human Uniprot/Swiss-Prot: <u>P18848</u> Mouse Entrez Gene: <u>11911</u> 2Mouse Uniprot/Swiss-Prot: <u>Q06507</u> Rat Entrez Gene: <u>79255</u> Rat Uniprot-Swiss-Prot: <u>Q9ES19</u>
Alternative Names	ATF4 / activating transcription factor 4 / activating transcription factor 4 (1) antibody / activating transcription factor 4 antibody / activating transcription factor 4 (tax-responsive enhancer element B67) antibody / activating transcription factor ATF-4 antibody / AS27_07890 antibody / AS28_12494 antibody / ATF4-1 antibody / atf4-a antibody / CAMP-dependent transcription factor ATF-4 antibody / cAMP-response element-binding protein 2 antibody / C /ATF antibody / CB1_000240004 antibody / c /EBP-related ATF antibody / creb2 antibody / DC3_10014009 antibody / DNA-binding protein factor ATF-4 antibody / D623_10014009 antibody / DNA-binding protein TAXREB67 antibody / GWT_02603 antibody / N300_11560 antibody / N301_08769 antibody / N302_12731 antibody / N303_02860 antibody / N305_14004 antibody / N302_07357 antibody / N301_08769 antibody / N302_03295 antibody / N311_09674 antibody / N312_04214 antibody / N326_01357 antibody / N321_1202 antibody / N324_09876 antibody / N325_04153 antibody / N327_08871 antibody / N333_08714 antibody / N34_09328 antibody / N333_08714 antibody / N34_0932 antibody / N334_08958 antibody / N335_04761 antibody / N334_08958 antibody / N335_04761 antibody / N340_07125 antibody / IAXF-4 antibody / tax-responsive enhancer element-B67 antibody / tax-responsive enhancer element-B67 antibody / tax-responsive enhancer element B67 antibody / tax-responsive enhancer element-B67 antibody / tax-responsive enhancer element-B67 antibody / TXREB antibody / T



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 endoplasmic reticulum (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. Regulates the circadian expression of the core clock component PER2 and the serotonin transporter SLC6A4. Binds in a circadian time-dependent manner to the cAMP response elements (CRE) in the SLC6A4 and PER2 promoters and periodically activates the transcription of these genes. During ER stress response, activates the transcription of NLRP1, possibly in concert with other factors.

Sequence and
Domain FamilyThe BetaTrCP degron motif promotes binding to BTRC when
phosphorylated.

Post-translational Modifications Ubiquitinated by SCF (BTRC) in response to mTORC1 signal, followed by proteasomal degradation and leading to down-regulate expression of SIRT4. ; Phosphorylated by NEK6 (By similarity). Phosphorylated on the betaTrCP degron motif at Ser-219, followed by phosphorylation at Thr-213, Ser-224, Ser-231, Ser-235 and Ser-248, promoting interaction with BTRC and ubiquitination. Phosphorylation is promoted by mTORC1 (By similarity). ; Phosphorylated by NEK6.

Cellular Localization Cytoplasm Cell membrane Nucleus Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Colocalizes with GABBR1 in hippocampal neuron dendritic membranes (By similarity). Colocalizes with NEK6 at the centrosome.

For reference only

For Research Use Only. Not for Diagnostic or Therapeutic Use.