ARG63158
anti-ATF4 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ATF4
Tested Reactivity	Ms
Predict Reactivity	Hu, Rat, Pig
Tested Application	WB
Specificity	This antibody is expected to recognize both reported isoforms (NP_001666.2; NP_877962.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ATF4
Species	Human
Immunogen	C-EEVRKARGKKRVP
Conjugation	Un-conjugated
Alternate Names	DNA-binding protein TAXREB67; TAXREB67; Tax-responsive enhancer element-binding protein 67; cAMP-dependent transcription factor ATF-4; Cyclic AMP-dependent transcription factor ATF-4; Activating transcription factor 4; CREB2; CREB-2; Cyclic AMP-responsive element-binding protein 2; cAMP-responsive element-binding protein 2; TXREB; TaxREB67

Application Instructions

Application table

Application	Dilution
WB	0.3 - 1 µg/ml

Application Note: WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 37 kDa

Properties

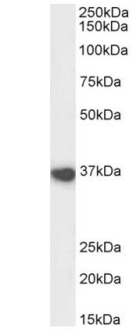
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 11911 Mouse Swiss-port # Q06507 Mouse
Background	This gene 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. [provided by RefSeq, Sep 2011]
Research Area	Gene Regulation antibody
Calculated Mw	39 kDa
PTM	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.

Images



Mouse Heart

ARG63158 anti-ATF4 antibody WB image

Western blot: 35 µg of Mouse heart lysate (in RIPA buffer) stained with ARG63158 anti-ATF4 antibody at 1 µg/ml dilution and incubated at RT for 1 hour.