Anti-ATF4 (MOUSE) Monoclonal Antibody ATTO 633 Conjugated - 200-360-W61

Code: 200-360-W61 **Size:** 100 µg

Product Description: Anti-ATF4 (MOUSE) Monoclonal Antibody ATTO 633 Conjugated - 200-360-W61

Concentration: 1mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	ATTO 633
Host	Mouse
Gene Name	ATF4
Emission Wavelength	657
Excitation Wavelength	629
Species Reactivity	Human, Rat
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	50% (v/v) Glycerol
Preservative	0.1% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	Activating Transcription Factor 4, ATF 4, ATF4 protein, cAMP-dependent transcription factor ATF-4, cAMP-responsive element-binding protein 2, CREB 2, CREB-2, CREB2, Cyclic AMP dependent transcription factor ATF 4
Application Note	Anti-ATF4 ATTO 633 Conjugated Antibody is suitable for Western Blots and Immunocytochemistry. Expect a band approximately ~60 kDa on specific lysates or tissues. Does not cross react with ATF5. Specific conditions for reactivity should be optimized by the end user.
Background	Cyclic AMP-dependent transcription factor ATF-4 (ATF4) is a basic leucine-zipper (bZip) transcription factor, which regulates amino acid metabolism, DNA damage repair, chromatin remodeling, and apoptosis in response to cellular and ER stress. ATF4 works with various proteins, such as C/EBP homology protein (CHOP), aspargine synthetase (ASNS), and cAMP response element (CRE) among others to mediate cellular stress. ATF4 also regulates glucose homeostasis by suppressing beta-cell proliferation and insulin production. Furthermore, ATF4 targets the histone demethylase JMJD3 to alter chromatin structure and enhance gene transcription in response to amino acid deprivation. Anti-ATF4 is ideal for researchers interested in Cell Signaling, Oncology, Cell Differentiation, and Apoptosis; relevant pathways include MAPK signaling pathways, Activation of cAMP-Dependent PKA, CREB pathways, GPCR pathways and Rho Family GTPases.
Purity And Specificity	Anti-ATF4 Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 85% identical to mouse, 86% identical to rat and <50% identical to ATF5. Will not cross react with ATF5.
ELISA	1:10,000
Western Blot	1:1000
Immunohistochemistry	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	Anti-ATF4 Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 25-327 of human ATF4.

Related Products

600-401-A61	Anti-C/EBP delta (RABBIT) Antibody - 600-401-A61
610-1302	Anti-MOUSE IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 610-1302
B304	NORMAL GOAT SERUM (NGS) - B304

MB-070	Blocking Buffer for Fluorescent Western Blotting - MB-070

Related Links

	UniProtKB - P18848
http://www.uniprot.org/uniprot/P18848	
GeneID - 468	http://www.ncbi.nlm.nih.gov/gene/468
	NCBI - NP_001666

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