

ARG43903 anti-ATF4 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ATF4
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATF4
Species	Human
Immunogen	Human ATF4 recombinant protein
Conjugation	Un-conjugated
Alternate Names	ATF4; Activating Transcription Factor 4; CREB-2; TAXREB67; TXREB; Tax-Responsive Enhancer Element-Binding Protein 67; Cyclic AMP-Dependent Transcription Factor ATF-4; Cyclic AMP-Responsive Element-Binding Protein 2; CAMP-Dependent Transcription Factor ATF-4; CAMP-Responsive Element-Binding Protein 2; Tax-Responsive Enhancer Element B67; CREB2; Activating Transcription Factor 4 (Tax-Responsive Enhancer Element B67); CAMP Response Element-Binding Protein 2; DNA-Binding Protein TAXREB67; TaxREB67

Application Instructions

Application table	Application	Dilution
	ELISA	0.1-0.5 µg/ml
	FACS	1-3 µg/1x10 ⁶ cells
	ICC/IF	5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ and 4% Trehalose.
Stabilizer	4% Trehalose
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

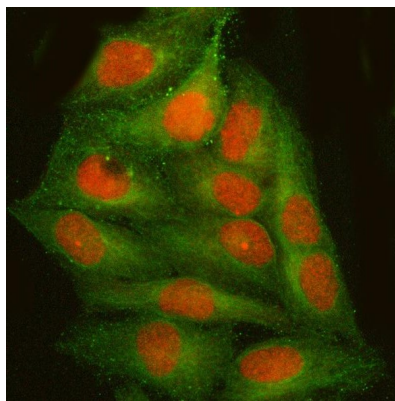
and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

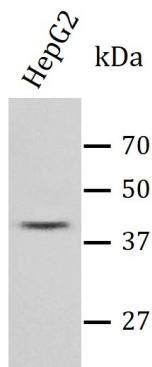
Gene Symbol	ATF4
Gene Full Name	Activating Transcription Factor 4
Background	This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also 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]
Function	Transcription factor that binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3') and displays two biological functions, as regulator of metabolic and redox processes under normal cellular conditions, and as master transcription factor during integrated stress response (ISR).
Calculated Mw	39 kDa
PTM	Acetylation, Hydroxylation, Isopeptide bond, Phosphoprotein, Ubl conjugation
Cellular Localization	Cell membrane, Cytoplasm, Cytoskeleton, Membrane, Nucleus

Images



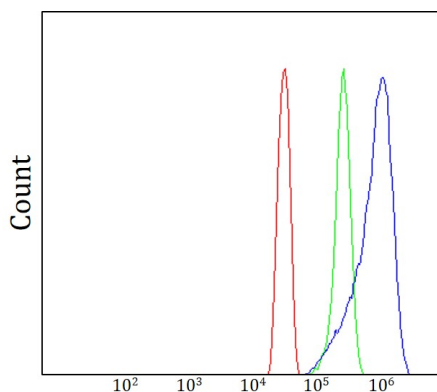
ARG43903 anti-ATF4 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG43903 anti-ATF4 antibody at 5 µg/ml dilution.



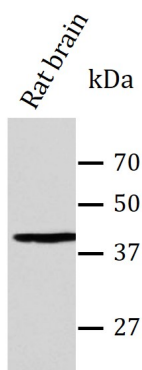
ARG43903 anti-ATF4 antibody WB image

Western blot: HepG2 stained with ARG43903 anti-ATF4 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.



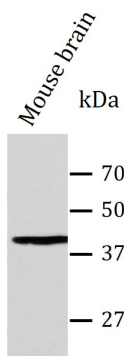
ARG43903 anti-ATF4 antibody FACS image

Flow Cytometry: SiHa cells stained with ARG43903 anti-ATF4 antibody (blue) at 1 $\mu\text{g}/1 \times 10^6$ cells dilution.



ARG43903 anti-ATF4 antibody WB image

Western blot: Rat brain stained with ARG43903 anti-ATF4 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.



ARG43903 anti-ATF4 antibody WB image

Western blot: Mouse brain stained with ARG43903 anti-ATF4 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.