

Product Datasheet

ATF4 Antibody (2B3) - Azide and BSA Free H00000468-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00000468-M01

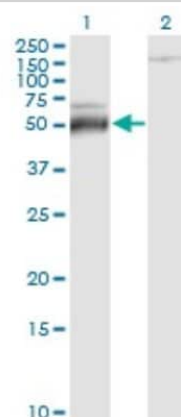
ATF4 Antibody (2B3) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2B3
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	468
Gene Symbol	ATF4
Species	Human, Mouse
Reactivity Notes	Mouse reported in scientific literature (PMID: 23223004).
Specificity/Sensitivity	ATF4 - activating transcription factor 4 (tax-responsive enhancer element B67)
Immunogen	ATF4 (NP_001666.2, 171 a.a. ~ 270 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. SSTPDHSFSLELGSEVDITEGDRKPDYTAYVAMIPQCIKEEDTPSDNDSGICMS PESYLGSPQHSPSTRGSPNRSPLSPGVLCGSARPKPYDPPGKEMA
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500, ELISA, Immunocytochemistry/ Immunofluorescence 1:10-1:2000
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IF and ELISA.

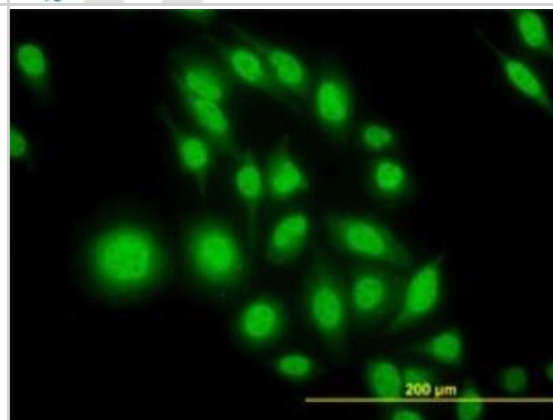


Images

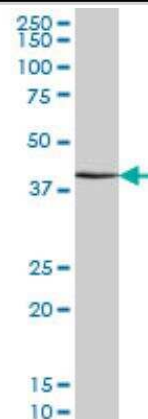
Western Blot: ATF4 Antibody (2B3) [H00000468-M01] - Analysis of ATF4 expression in transfected 293T cell line by ATF4 monoclonal antibody (M01), clone 2B3. Lane 1: ATF4 transfected lysate(38.6 KDa). Lane 2: Non-transfected lysate.



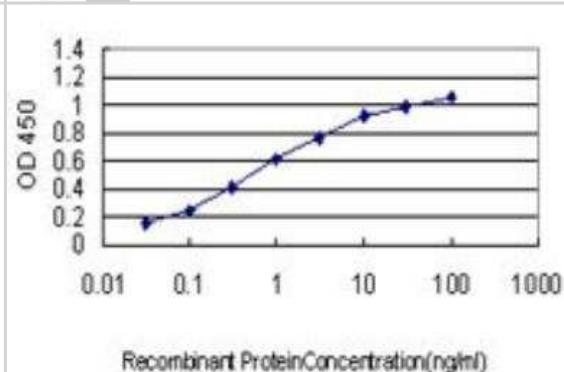
Immunocytochemistry/Immunofluorescence: ATF4 Antibody (2B3) [H00000468-M01] - Analysis of monoclonal antibody to ATF4 on HeLa cell. Antibody concentration 10 ug/ml.



Western Blot: ATF4 Antibody (2B3) [H00000468-M01] - Western Blot analysis of ATF4 expression in NIH/3T3 (Cat # L018V1).



ELISA: ATF4 Antibody (2B3) [H00000468-M01] - Detection limit for recombinant GST tagged ATF4 is approximately 0.03ng/ml as a capture antibody.



Publications

Zhou B, Lu Q, Liu J et al. Melatonin Increases the Sensitivity of Hepatocellular Carcinoma to Sorafenib through the PERK-ATF4-Beclin1 Pathway. *Int J Biol Sci.* 2019-07-21 [PMID: 31523192]

Di Benedetto A, Posa F, De Maria S et al. Polydatin, Natural Precursor of Resveratrol, Promotes Osteogenic Differentiation of Mesenchymal Stem Cells. *Int J Med Sci* 2018-06-13 [PMID: 30008608]

Meister S, Frey B, Lang VR et al. Calcium Channel Blocker Verapamil Enhances Endoplasmic Reticulum Stress and Cell Death Induced by Proteasome Inhibition in Myeloma Cells. *Neoplasia.* 2010-07-01 [PMID: 20651984]

Cole BK, Kuhn NS, Green-Mitchell SM et al. 12/15-Lipoxygenase signaling in the endoplasmic reticulum stress response. *Am J Physiol Endocrinol Metab.* 2012-01-03 [PMID: 22215650]

Suragani RN, Zachariah RS, Velazquez JG et al. Heme-regulated eIF2alpha kinase activated Atf4 signaling pathway in oxidative stress and erythropoiesis. *Blood.* 2012-04-12 [PMID: 22498744]

Ghemrawi R, Pooya S, Lorentz S et al. Decreased vitamin B12 availability induces ER stress through impaired SIRT1-deacetylation of HSF1. *Cell Death Dis.* 2012-12-13 [PMID: 23519122]

Wang L, Wang X, Zhang S et al. A Protective Role of Heme-Regulated eIF2alpha kinase in Cadmium-Induced Toxicity in Erythroid Cells. *Food Chem Toxicol.* 2013-10-22 [PMID: 24161693]

Wang X, Guo B, Li Q et al. miR-214 targets ATF4 to inhibit bone formation *Nat Med* 2012-12-09 [PMID: 23223004] (WB, Mouse)





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Products Related to H00000468-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-72383-50ug	Recombinant Human ATF4 His-Cam Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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