

# Product Datasheet

## ATF4 Antibody NB100-852

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NB100-852**

## ATF4 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	38.6 kDa

Product Description	
Host	Goat
Gene ID	468
Gene Symbol	ATF4
Species	Human, Mouse
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Rat, Porcine.
Specificity/Sensitivity	This antibody is expected to recognize both reported isoforms (NP_001666.2; NP_877962.1).
Immunogen	Peptide with sequence C-EEVRKARGKKRVP corresponding to C-Terminus according to NP_877962.1.

Product Application Details	
Applications	Western Blot, Peptide ELISA
Recommended Dilutions	Western Blot 0.3 - 1 ug/mL, Peptide ELISA Detection limit 1:128000
Application Notes	Western blot: Approx 35-37 kDa band observed in Mouse Heart lysates (calculated MW of 38.3 kDa according to Mouse NP_001274109.1; NP_033846.2). A customer has reported positive results on mouse embryonic fibroblasts (3T3 cells).

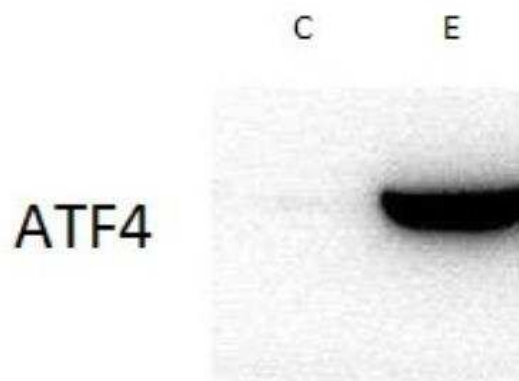


## Images

Western Blot: ATF4 Antibody [NB100-852] - Staining of Mouse Heart lysate (35 ug protein in RIPA buffer). Antibody at 1 ug/mL. Detected by chemiluminescence.

250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
25kDa  
20kDa  
15kDa

Western Blot: ATF4 Antibody [NB100-852] - Ethanol feeding induced ATF4 expression in mouse liver which was suppressed by Lipin1 overexpression in adipose tissue. Western blot image submitted by a verified customer review.



## Publications

VAsquez-Trincado C, Patel M, Sivaramakrishnan A et al. Adaptation of the heart to Frataxin depletion: Evidence that integrated stress response can predominate over mTORC1 activation Human molecular genetics 2021-09-22 [PMID: 34550363]

Albayrak D, Doganlar O, Erdogan S et al. Naringin Combined with NF-kappa B Inhibition and Endoplasmic Reticulum Stress Induces Apoptotic Cell Death via Oxidative Stress and the PERK/eIF2 alpha/ATF4/CHOP Axis in HT29 Colon Cancer Cells Biochem. Genet. 2020-09-26 [PMID: 32979141] (Human)

Besio R, Garibaldi N, Leoni L et al. Cellular stress due to impairment of collagen prolyl hydroxylation complex is rescued by the chaperone 4-phenylbutyrate Dis Model Mech. 2019-06-20 [PMID: 31171565] (WB, Human)

Khalyfa A, Qiao Z, Gileles-Hillel A et al. Activation of the Integrated Stress Response and Metabolic Dysfunction in a Murine Model of Sleep Apnea. Am. J. Respir. Cell Mol. Biol. 2017-10-01 [PMID: 28594573] (WB, Mouse)

Zhang W, Zhong W, Sun Q et al. Adipose-specific lipin1 overexpression in mice protects against alcohol-induced liver injury. Sci Rep 2018-01-11 [PMID: 29323242] (WB, Mouse)

Tsujimoto A, Nyunoya H, Morita T et al. Isolation of cDNAs for DNA-binding proteins which specifically bind to a tax-responsive enhancer element in the long terminal repeat of human T-cell leukemia virus type I. J Virol 1991-03-01 [PMID: 1847461]

Kim DI, Park MJ, Choi JH et al. Hyperglycemia-induced GLP-1R downregulation causes RPE cell apoptosis. Int J Biochem Cell Biol. [PMID: 25483438] (WB, Human)



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### Products Related to NB100-852

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HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
NBP1-72383-50ug	Recombinant Human ATF4 His-Cam Protein

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### 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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