

Product Datasheet

TFEB Antibody (S1) - Azide and BSA Free H00007942-M01

Unit Size: 0.1 mg

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

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H00007942-M01

TFEB Antibody (S1) - 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	S1
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

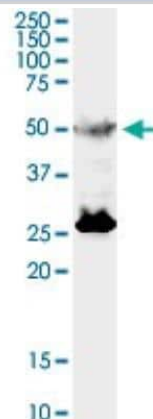
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	7942
Gene Symbol	TFEB
Species	Human, Mouse, Rat
Specificity/Sensitivity	TFEB - transcription factor EB
Immunogen	TFEB (AAH32448, 1 a.a. ~ 476 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MASRIGLRMQLMREQAQQEEQRERMQQQAVMHYMQQQQQQQQQQLGGPP TPAINTPVHFQSPPPVPGEVKLVQSYLENPTSYHLQQSQHQKVREYLSEYGN KFAAHISPAQGSPPKPPAASPGVRAGHVLSSSAGNSAPNSPMAMLHIGSNPER ELDDVIDNIMRLDDVLGYINPEMQMPNTLPLSSSHLNVYSSDPQVTASLVGVTS SSCPADLTQKRELTDAESRALAKERQKDNHNLIERRRRFNINDRIKELGMLIPK ANDLDVRWNKGITLKASVDYIRRMQKDLQKSRELENHSRRLEMTNKQLWLRIQ ELEMQARVHGLPTTSPSGMNMAELAQQVVKQELPSEEGPGEALMLGAEVDPD EPLPALPPQAPLPLPTQPPSPFHHLDFSHLSLFGGREDEGPPGYPEPLAPGHG SPFPSLSKKDLMLLDDSLPLASDPLLSTMSPEASKASSRRSSFSMEEGDVL
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, ELISA, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunoblotting
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IF and ELISA. Use in IHC-P reported in scientific literature (PMID:35897713).

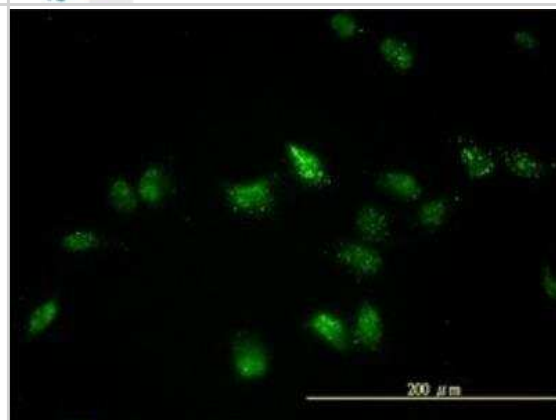


Images

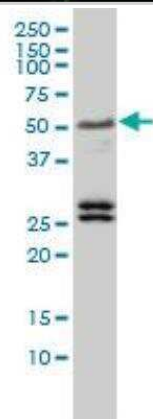
Western Blot: TFEB Antibody (S1) [H00007942-M01] - TFEB monoclonal antibody (M01), clone S1. Analysis of TFEB expression in rat brain.



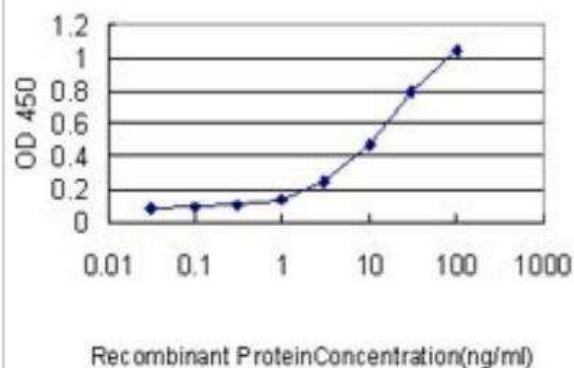
Immunocytochemistry/Immunofluorescence: TFEB Antibody (S1) [H00007942-M01] - Analysis of monoclonal antibody to TFEB on HeLa cell. Antibody concentration 20 ug/ml.



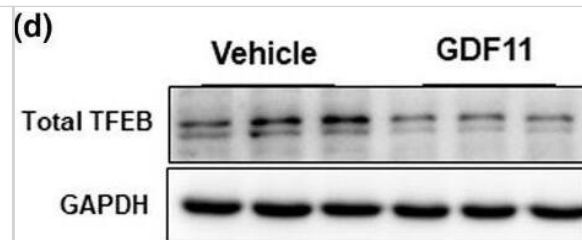
Western Blot: TFEB Antibody (S1) [H00007942-M01] - TFEB monoclonal antibody (M01), clone 3E1-G6 Western Blot analysis of TFEB expression in Jurkat (Cat # L017V1).



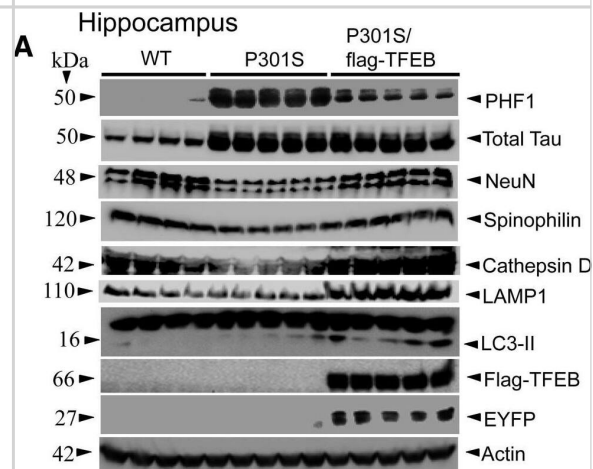
ELISA: TFEB Antibody (S1) [H00007942-M01] - TFEB Antibody (3E1-G6) [H00007942-M01] - Detection limit for recombinant GST tagged TFEB is approximately 0.03ng/ml as a capture antibody.



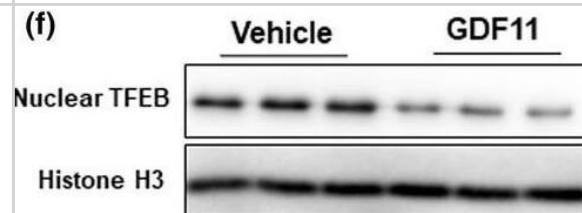
Western Blot: TFEB Antibody (S1) [H00007942-M01] - GDF11 inhibits TFEB activity. (a) AML12 cells were cultured for 48 h in presence of GDF11 (100 ng/ml). qRT-PCR analysis of the mRNA levels of TFEB & its target genes VPS11 & ATP6V1H. (b) AML12 cells transiently expressing GFP-TFEB were cultured for 48 h in presence of GDF11 (100 ng/ml). Immunofluorescence confocal microscopy showing TFEB localization with or without GDF11 (original magnification, 400 \times). (c) Nuclear TFEB fluorescence intensity normalized to vehicle controls. (d) Western blot analysis of total TFEB protein expression. (e) Densitometry analysis of the total TFEB. (f) Western blot analysis of nuclear TFEB protein expression. (g) Densitometry analysis of the nuclear TFEB. The experiment was performed in triplicate with similar results. The data are shown as mean \pm SD, * p < 0.05 compared to the vehicle group. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34905649>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: TFEB Antibody (S1) [H00007942-M01] - TFEB expression reduces PHF1 levels in the P301S model of tauopathy, & significantly attenuates the loss of neuronal & synaptic markers in the hippocampus. A, Lysates were prepared from the hippocampal regions of WT, P301S, & P301S/flag-TFEB mice, & were subjected to immunoblotting. B, Quantitation by ImageJ revealed PHF1 levels of 436% in the P301S mice compared with WT controls, which were significantly attenuated to 212% in the P301S/flag-TFEB double-transgenic mice. However, TFEB expression did not alter the levels of total tau, which remained similar in the P301S & the double-transgenic mice. NeuN levels were reduced by 25% in the P301S mice, which was significantly reversed to WT levels in the double-transgenic mice. Similarly, spinophilin levels were reversed from 40% reduction to 6% due to TFEB overexpression. TFEB expression also increased LAMP1 levels by 207% & cathepsin D levels by 33% in the P301S/flag-TFEB mice compared with WT controls. Statistical analysis by one-way ANOVA followed by Student–Newman–Keuls post hoc test revealed significant differences. * p < 0.05, ** p < 0.01, & *** p < 0.001, compared with WT controls; \$\$ p < 0.01, \$\$\$ p < 0.001, compared with P301S mice. The data are reported as the mean \pm SEM. n = 4 WT mice; n = 5 P301S & P301S/flag-TFEB mice. Image collected & cropped by CiteAb from the following publication (<https://www.eneuro.org/lookup/doi/10.1523/ENEURO.0042-16.2016>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: TFEB Antibody (S1) [H00007942-M01] - GDF11 inhibits TFEB activity. (a) AML12 cells were cultured for 48 h in presence of GDF11 (100 ng/ml). qRT-PCR analysis of the mRNA levels of TFEB & its target genes VPS11 & ATP6V1H. (b) AML12 cells transiently expressing GFP-TFEB were cultured for 48 h in presence of GDF11 (100 ng/ml). Immunofluorescence confocal microscopy showing TFEB localization with or without GDF11 (original magnification, 400 \times). (c) Nuclear TFEB fluorescence intensity normalized to vehicle controls. (d) Western blot analysis of total TFEB protein expression. (e) Densitometry analysis of the total TFEB. (f) Western blot analysis of nuclear TFEB protein expression. (g) Densitometry analysis of the nuclear TFEB. The experiment was performed in triplicate with similar results. The data are shown as mean \pm SD, * p < 0.05 compared to the vehicle group. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/34905649>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Lee SJ, Kim YA, Park KK Anti-Fibrotic Effect of Synthetic Noncoding Decoy ODNs for TFEB in an Animal Model of Chronic Kidney Disease International journal of molecular sciences 2022-07-23 [PMID: 35897713] (IHC-P, Mouse)

Sun J, Li Y, Yang X et al. Growth differentiation factor 11 accelerates liver senescence through the inhibition of autophagy Aging cell 2021-12-14 [PMID: 34905649] (WB, Mouse)

Rockfield S, Guergues J, Rehman N et al. Proteomic Profiling of Iron-Treated Ovarian Cells Identifies AKT Activation, which Modulates the CLEAR Network. Proteomics 2018-09-28 [PMID: 30267477]

Wang H, Wang R, Carrera I et al. TFEB Overexpression in the P301S Model of Tauopathy Mitigates Increased PHF1 Levels and Lipofuscin Puncta and Rescues Memory deficits. Eneuro May 6 2016 12:00AM

Wang H, Wang R, Xu S, Lakshmana MK. Transcription Factor EB Is Selectively Reduced in the Nuclear Fractions of Alzheimer's and Amyotrophic Lateral Sclerosis Brains. Neurosci J 2016-06-07 [PMID: 27433468]

Wang H, Wang R, Carrera I et al. TFEB Overexpression in the P301S Model of Tauopathy Mitigates Increased PHF1 Levels and Lipofuscin Puncta and Rescues Memory Deficits. eNeuro 2016-05-06 [PMID: 27257626]

Ju X, Yan Y, Liu Q et al. Neuraminidase of influenza A virus binds LAMPs directly and induces lysosome rupture. J Virol. 2015-08-05 [PMID: 26246576]





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Products Related to H00007942-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)
NBL1-16838	TFEB Overexpression Lysate

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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