

Product Datasheet

TFEB Antibody NB100-1030

Unit Size: 0.1 mg

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

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NB100-1030**TFEB 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

Product Description	
Host	Goat
Gene ID	7942
Gene Symbol	TFEB
Species	Human
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Mouse, Rat, Canine, Porcine, Bovine.
Immunogen	Peptide with sequence ASRIGLRMQLMRE-C corresponding to N-Terminus according to NP_009093.1.

Product Application Details	
Applications	Western Blot, Simple Western, Peptide ELISA, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 0.3 - 1 ug/mL, Simple Western reported by internal validation, Peptide ELISA 1:64000, Chromatin Immunoprecipitation (ChIP)
Application Notes	Use in ChIP reported in scientific literature (PMID:10.3389/fcell.2021.652651) WB: Approx 55 kDa band observed in Human Thymus and in lysates of cell line HepG2, and approx 60 kDa in lysates of cell line Daudi (calculated MW of 54.2 kDa according to NP_001161299.2). In Simple Western internal validation: Mouse Brain lysate as sample; separated by size; antibody dilution of 1:00-1:2000; matrix was 12-230 kDa; detected by Chemiluminescence.



Images

Western Blot: TFEB Antibody [NB100-1030] - Staining of Human Thymus 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: TFEB Antibody [NB100-1030] - Staining of Daudi (A) and (0.5 ug/mL) HepG2 (B) cell lysate (35 ug protein in RIPA buffer). Antibody at 0.3 ug/mL. Detected by chemiluminescence.

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

A B

Publications

Ermini L, Farrell A, Alahari S et al. Ceramide-Induced Lysosomal Biogenesis and Exocytosis in Early-Onset Preeclampsia Promotes Exosomal Release of SMPD1 Causing Endothelial Dysfunction *Frontiers in cell and developmental biology* 2021-05-04 [PMID: 34017832] (Chemotaxis, Human)

Awad O, Panicker LM, Deranieh RM et al. Altered Differentiation Potential of Gaucher's Disease iPSC Neuronal Progenitors due to Wnt/B-Catenin Downregulation. *Stem Cell Reports* 2017-12-12 [PMID: 29198828] (WB, Human)

Nakamura S, Karalay O, Jager PS et al. Mondo complexes regulate TFEB via TOR inhibition to promote longevity in response to gonadal signals. *Nat Commun* 2016-03-22 [PMID: 27001890] (WB)

Steingrimsson E, Sawadogo M, Gilbert DJ et al. Murine chromosomal location of five bHLH-Zip transcription factor genes. *Genomics* 1995-07-20 [PMID: 8530024]

Hubbi ME, Hu H, Kshitiz et al. Chaperone-mediated Autophagy Targets Hypoxia-inducible Factor-1alpha (HIF-1alpha) for Lysosomal Degradation *J Biol Chem* 2013-04-12 [PMID: 23457305]

Kuiper RP, Schepens M, Thijssen J et al. Upregulation of the transcription factor TFEB in t(6;11)(p21;q13)-positive renal cell carcinomas due to promoter substitution. *Hum Mol Genet* 2003-07-01 [PMID: 12837690]

Esumi N, Kachi S, Campochiaro PA et al. VMD2 promoter requires two proximal E-box sites for its activity in vivo and is regulated by the MITF-TFE family. *J Biol Chem*. 2007-01-01 [PMID: 17085443]

Huan C, Sashital D, Hailemariam T et al. Renal carcinoma-associated transcription factors TFE3 and TFEB are leukemia inhibitory factor-responsive transcription activators of E-cadherin. *J Biol Chem*. 2005-08-01 [PMID: 15994295]



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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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