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Datasheet for 600-401-FD2

TFEB Antibody

Overview

Description:	Anti-TFEB (RABBIT) Antibody - 600-401-FD2
Item No.:	600-401-FD2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	The Transcription factor EB (TFEB) is a member in the basic helix-loop-helix leucine zipper superfamily of transcription factors that is translocated in a subset of renal tumors. Recent studies have shown that lysosomal biogenesis is regulated by TFEB, which is in turn regulated by the mammalian target of rapamycin (mTOR) complex 1. Other evidence suggests that TFEB coordinates the major steps of the autophagic pathway by driving the expression of autophagy and lysosomal genes.
Synonyms:	TFEB Antibody, TCFEB, BHLHE35, ALPHATFEB, Transcription factor EB, Class E basic helix-loop-helix protein 35, bHLHe35
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TFEB
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TFEB antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the N-terminus of human TFEB.

Purity/Specificity:	Anti-TFEB Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with TFEB from other sources has not been determined.
Relevant Links:	• UniProtKB - P19484 • GeneID - 7942 • NCBI - NP_001161299.2

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TFEB Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 53 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	2.5 µg/mL
IHC:	2.5 µg/mL
WB:	1-2 µg/mL

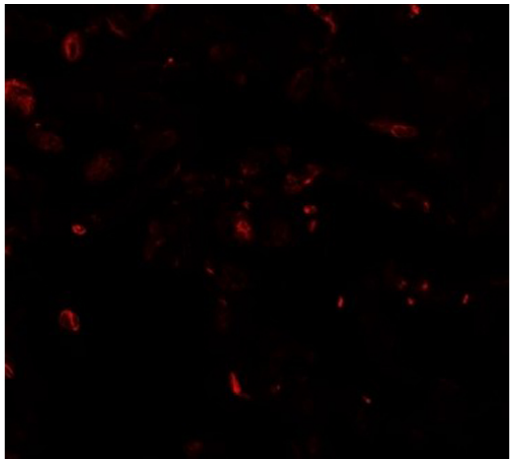
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

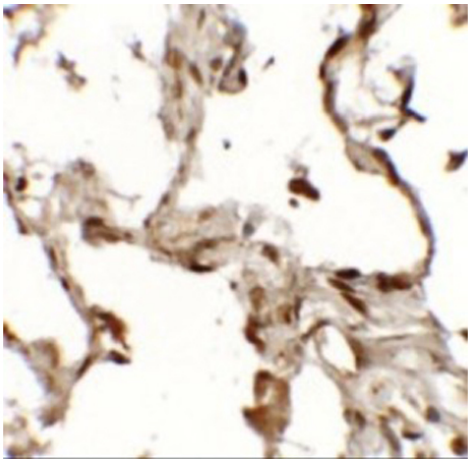
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

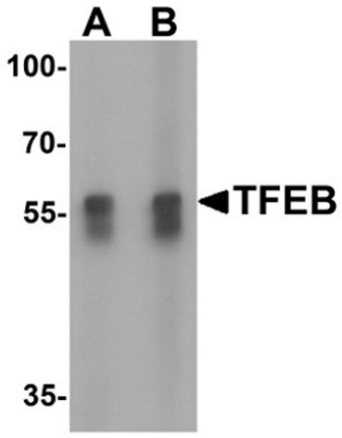
Images



Immunofluorescence Microscopy
Immunofluorescence of TFEB (NT).
Tissue: human lung tissue.
Primary Antibody: TFEB antibody at 20 µg/mL.



Immunohistochemistry
Immunohistochemistry of TFEB (NT).
Tissue: human lung tissue.
Primary Antibody: TFEB antibody at 2.5 µg/mL.



Western Blot
Western blot analysis of TFEB (NT).
Load: A549 cell lysate.
Primary Antibody: TFEB antibody at (A) 1 and (B) 2 µg/mL.

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Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.