

TFEB Polyclonal Antibody

Catalog NumberPA5-18766

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Goat / IgG	Tested Applications	
Class	Polyclonal	Western Blot (WB)	Dilution *1-3 µg/mL
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Synthetic peptide sequence (QKDLQKSRELENH) corresponding to the internal amino acids of TFEB		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Ammonium sulfate precipitation		
Storage buffer	TBS, pH 7.3, with 0.5% BSA		
Contains	0.02% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with canine, mouse and rat based on sequence homology. This antibody is tested in Peptide ELISA: antibody detection limit dilution 1,000.

Background/Target Information

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.

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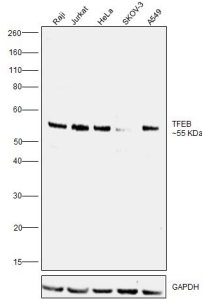
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Product Images For TFEB Polyclonal Antibody

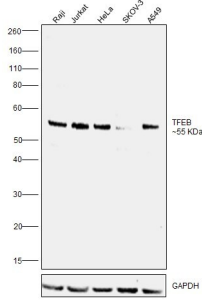
TFEB Antibody (PA5-18766)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissue tested owing to their inherent genetic constitution. Relative expression of TFEB was observed in Raji, Jurkat, HeLa and A549 in comparison as to Low or no expression in SKOV-3 using anti-TFEB Polyclonal Antibody (Product # PA5-18766) in Western Blot. {RE}



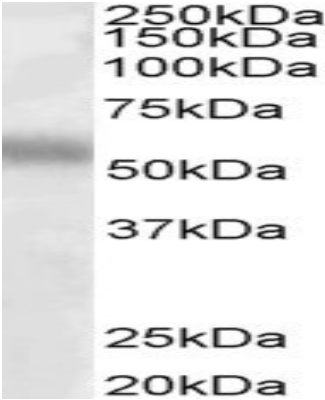
TFEB Antibody (PA5-18766) in WB

Western blot was performed using TFEB Polyclonal Antibody (Product # PA5-18766) and a 55 kDa band corresponding to TFEB was observed across the cell lines tested. Whole cell Extracts of (30 µg lysate) of Raji (Lane 1), Jurkat (Lane 2), HeLa (Lane 3), SKOV-3 (Lane 4) and A549 (Lane 5) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



TFEB Antibody (PA5-18766) in WB

Western blot analysis of TFEB using TFEB Polyclonal Antibody (Product # PA5-18766) (1 µg/mL) in staining of Human Lung lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



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