

For Research Use Only

# CoraLite®594-conjugated TFEB Polyclonal antibody



Catalog Number: CL594-13372

Featured Product

1 Publications

## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>CL594-13372                          | <b>GenBank Accession Number:</b><br>BC032448 | <b>Purification Method:</b><br>Antigen affinity purification      |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>7942                | <b>Recommended Dilutions:</b><br>IF 1:50-1:500                    |
| <b>Source:</b><br>Rabbit                                       | <b>Full Name:</b><br>transcription factor EB | <b>Excitation/Emission maxima wavelengths:</b><br>588 nm / 604 nm |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>476 aa, 53 kDa      |   |
| <b>Immunogen Catalog Number:</b><br>AG4194                     | <b>Observed MW:</b><br>65-70 kDa             |   |

## Applications

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|--|--|
| <b>Tested Applications:</b><br>IF                | <b>Positive Controls:</b><br>IF : HepG2 cells, |
| <b>Cited Applications:</b><br>IF                 |  |
| <b>Species Specificity:</b><br>human, mouse, rat |  |

## Background Information

Transcription factor EB(TFEB) is one of the transcription factors that contain a basic HLH-ZIP domain(for DNA binding ) and HLH and ZIP domains( for loigomerization). TFEB specifically recognizes and binds to E-box sequences, which required dimerization with itself or another MiT/TFE family member. It plays a role in T-cell-dependent antibody responses to activated CD4+ T-cells and thymus-dependent humoral immunity once associated with TFE3. It also activates lysosomal gene by binding the CLEAR-box sequence in the regulatory region. It involves in the signal transduction processes required for normal vascularization of the placenta. This is a rabbit polyclonal antibody raised against the full length of human TFEB. The calculated molecular weight of TFEB is 53 kDa, but modified TFEB is about 65-70 kDa (PMID: 12837690). TFEB mainly present in the cytoplasm (PubMed:23434374). Under aberrant lysosomal storage conditions, it translocates from the cytoplasm to the nucleus (PubMed:23434374). Fisetin increases the levels of TFEB localized in nuclei (PMID: 27112200).

## Notable Publications

| Author               | Pubmed ID | Journal   | Application |
|----------------------|-----------|-----------|-------------|
| Margot R F Reijnders | 37057673  | Genet Med | IF          |

## Storage

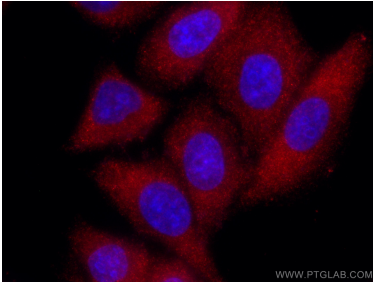
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

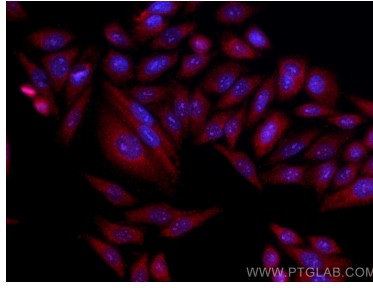
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite®594 TFEB antibody (CL594-13372) at dilution of 1:200.



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite®594 TFEB antibody (CL594-13372) at dilution of 1:600.