TFEB Polyclonal antibody
Catalog Number: 13372-1-AP

Basic Information
Catalog Number: 13372-1-AP
Size: 150μL
Concentration: 353 μg/ml by Bradford method using BSA as the standard;
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG4194
GenBank Accession Number: BCO024448
GeneID (NCBI): 7942
Full Name: transcription factor EB
Calculated MW: 476 aa, 53 kDa
Observed MW: 65-70 kDa
Purification Method: Antigen affinity purification
Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:200
IF 1:20-1:200

Applications
Tested Applications:
IF, IHC, WB, ELISA
Cited Applications:
IF, IHC, WB
Species Specificity:
human, mouse, rat
Cited Species:
human, monkey, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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 oligomerization). 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
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<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Koki Abe</td>
<td>31499159</td>
<td>Biochim Biophys Acta Mol Basis Dis</td>
<td>WB,IF</td>
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<tr>
<td>Maxime Boutry</td>
<td>31637311</td>
<td>Commun Biol</td>
<td>WB</td>
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<tr>
<td>Meng-Meng Jin</td>
<td>30515090</td>
<td>Front Aging Neurosci</td>
<td>WB</td>
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Storage
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage.

For technical support and original validation data for this product please contact:
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.
Jurkat cells were subjected to SDS PAGE followed by western blot with 13372-1-AP (TFEB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma using 13372-1-AP (TFEB antibody) at dilution of 1:50 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma using 13372-1-AP (TFEB antibody) at dilution of 1:50 (under 40x lens).

Immunofluorescent analysis of HeLa cells, using TFEB antibody 13372-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).