

For Research Use Only

TFEB Monoclonal antibody

Catalog Number: 68632-1-Ig



Basic Information

Catalog Number: 68632-1-Ig	GenBank Accession Number: BC032448	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 7942	CloneNo.: 1C2D9
Source: Mouse	UNIPROT ID: P19484	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG1	Full Name: transcription factor EB	
Immunogen Catalog Number: AG24850	Calculated MW: 476 aa, 53 kDa	
	Observed MW: 53, 65-70 kDa	

Applications

Tested Applications:
WB, ELISA

Species Specificity:
Human

Positive Controls:

WB : SK-BR-3 cells, HepG2 cells, Saos-2 cells, Ramos cells, Raji cells, Daudi cells

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 require 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).

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:

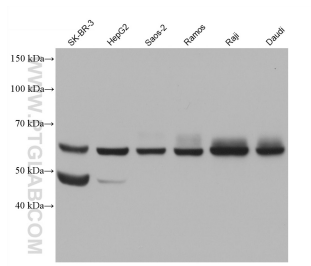
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68632-1-Ig (TFEB antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.