

For Research Use Only

TFEB Recombinant antibody, PBS Only

Catalog Number:84675-5-PBS



Basic Information

Catalog Number: 84675-5-PBS	GenBank Accession Number: BC032448	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 7942	CloneNo.: 242093D11
Source: Rabbit	UNIPROT ID: P19484	
Isotype: IgG	Full Name: transcription factor EB	
Immunogen Catalog Number: AG4194	Calculated MW: 476 aa, 53 kDa	
	Observed MW: 65-70 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse

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).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

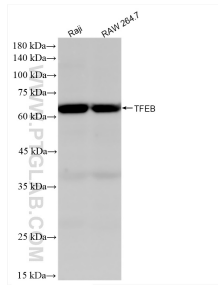
T: 4006900926

E: Proteintech-CN@ptglab.com

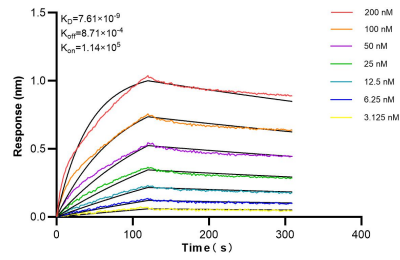
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84675-5-RR (TFEB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84675-5-PBS in a different storage buffer formulation.



Biacore BLI kinetic assays of 84675-5-RR against Human TFEB were performed. The affinity constant is 7.61 nM.