

For Research Use Only

TFEB Monoclonal antibody, PBS Only (Capture)



Catalog Number: 68632-1-PBS

Basic Information

Catalog Number: 68632-1-PBS	GenBank Accession Number: BC032448	Purification Method: Protein G purification
Size: 1mg/ml	GeneID (NCBI): 7942	CloneNo.: 1C2D9
Source: Mouse	UNIPROT ID: P19484	
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, Cytometric bead array, Indirect ELISA

Species Specificity:
human

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:

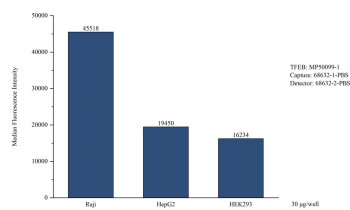
T: 4006900926

E: Proteintech-CN@ptglab.com

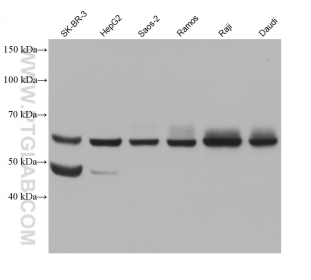
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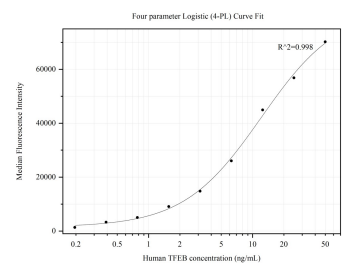
Selected Validation Data



Cytometric bead array in cell lysate using MP50099-1, TFEB Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68632-1-PBS. Detection antibody: 68632-2-PBS. Cell lysate: Raji, HepG2, HEK293.



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. This data was developed using the same antibody clone with 68632-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP50099-1, TFEB Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68632-1-PBS. Detection antibody: 68632-2-PBS. Standard: Ag24850. Range: 0.195-50 ng/mL.