

TFEB Rabbit pAb

CatalogNo: YT4613

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 65kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:20000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human TFEB. AA range:10-59

Specificity TFEB Polyclonal Antibody detects endogenous levels of TFEB protein.

Target Information

Gene name TFEB
Protein Name Transcription factor EB

Organism	Gene ID	UniProt ID
Human	7942;	P19484;
Mouse	21425;	Q9R210;

Cellular Localization

Cytoplasm, cytosol . Lysosome membrane . Nucleus . Mainly present in the cytoplasm (PubMed:23434374, PubMed:33691586). Under aberrant lysosomal storage conditions, it translocates from the cytoplasm to the nucleus (PubMed:21617040, PubMed:22576015, PubMed:23434374). The translocation to the nucleus is regulated by ATP13A2 (PubMed:23434374, PubMed:27278822). Colocalizes with mTORC1 on the lysosomal membrane: when nutrients are present, phosphorylation by MTOR prevents nuclear translocation and activity (PubMed:22343943, PubMed:22692423). Conversely, inhibition of mTORC1, starvation and lysosomal disruption, promotes dephosphorylation and translocation to the nucleus (PubMed:22343943, PubMed:22692423). Exported from the nucleus in response to nutrient availability (PubMed:30120233). In macrophages, translocates into the nucleus upon live S.enterica infection (PubMed:27184844). . ; Nucleus . (Microbial infection) Following Coxsackievirus B3 infection, full length TFEB and viral protease 3C-mediated cleavage product are translocated from the cytoplasm to the nucleus. .

Tissue specificity B-cell,Brain,Kidney,Lung,Muscle,Spleen,

Function

Function:Probable transcription factor binds to the USF/MLTF site and probably recognizes E-box sequences in the heavy-chain immunoglobulin enhancer.,similarity:Belongs to the MiT/TFE family.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,subunit:Efficient DNA binding requires dimerization with another bHLH protein.,

| Validation Data

| Contact information

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