

# [KD Validated] TFEB Rabbit mAb

Catalog No.: A25981 **Recombinant**

## Basic Information

### Observed MW

65-70kDa

### Calculated MW

44kDa/53kDa

### Category

Primary antibody

### Applications

WB, IHC-P, IF/ICC, ELISA, CHIP

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC68094

## Background

Enables DNA-binding transcription factor activity; enzyme binding activity; and transcription cis-regulatory region binding activity. Involved in several processes, including cellular response to amino acid starvation; lysosome localization; and positive regulation of autophagy. Located in cytosol; lysosomal membrane; and nucleoplasm.

## Recommended Dilutions

**WB** 1:1000 - 1:2000

**IHC-P** 1:200 - 1:800

**IF/ICC** 1:200 - 1:400

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

**ChIP** 5µg antibody for 10µg-15µg of Chromatin

## Contact

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## Immunogen Information

### Gene ID

7942

### Swiss Prot

P19484

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 50-173 of human TFEB (NP\_009093.1).

### Synonyms

TCFEB; BHLHE35; ALPHATFEB

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

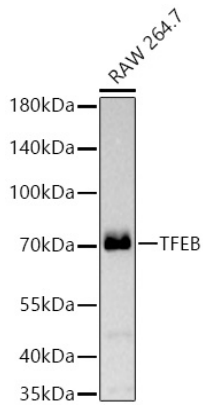
Affinity purification

### Storage

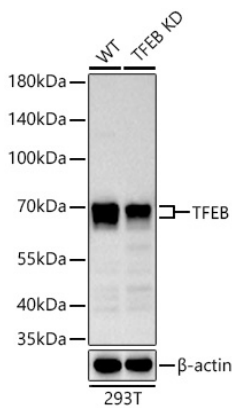
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

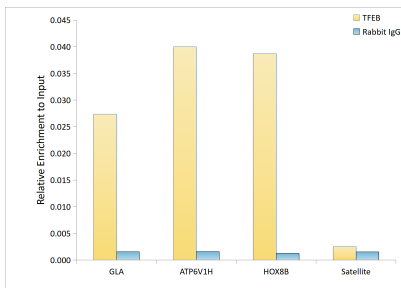
## Validation Data



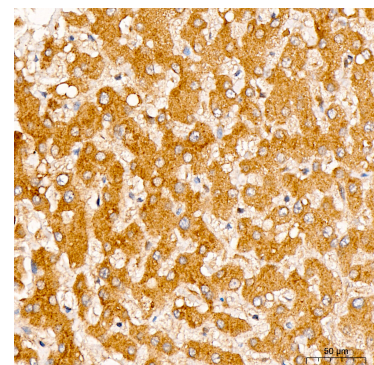
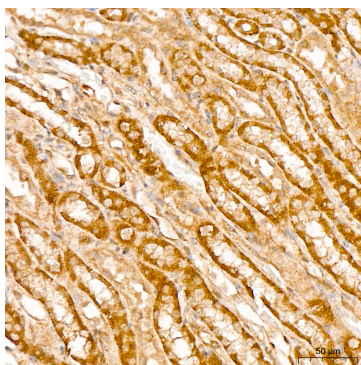
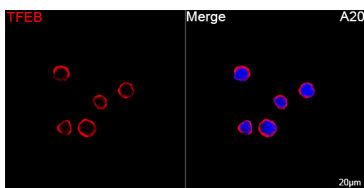
Western blot analysis of lysates from RAW 264.7 cells using [KD Validated] TFEB Rabbit mAb (A25981) at 1:1000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 45s.



Western blot analysis of lysates from wild type (WT) and TFEB knockdown (KD) 293T cells using [KD Validated] TFEB Rabbit mAb (A25981) at 1:1000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 90s.



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from Raji cells treated by Torin-1 (250nM, 5h), using 5 µg of [KD Validated] TFEB Rabbit mAb (A25981) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



## Validation Data

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Confocal imaging of A20 cells using [KD Validated] TFEB Rabbit mAb (A25981, dilution 1:300) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using [KD Validated] TFEB Rabbit mAb (A25981) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human liver tissue using [KD Validated] TFEB Rabbit mAb (A25981) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.