bs-22337R **[Primary Antibody]**

phospho-TFEB(Ser142) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7942 **SWISS:** P19484

Target: TFEB(Ser142)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human TFEB around the phosphorylation site of Ser142: PN(p-S)PM.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Transcription factors of the basic helix-loop-helix zipper (bHLH-ZIP) family contain a basic domain, used for DNA binding, and HLH and ZIP domains, both used for oligomerization. TFEB was isolated from a human B-cell cDNA library using a binding sequence from the adenovirus major late promoter. This transcription factor probably binds to the USF/MLTF site and probably recognizes E-box sequences in the heavy-chain immunoglobulin enhancer.

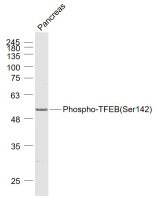
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Cow, Dog, Horse)

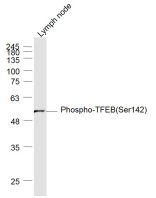
Predicted MW.: 52 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Pancreas (Mouse) Lysate at 40 ug Primary: Anti- Phospho-TFEB(Ser142) (bs-22337R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD



Sample: Lymph node(Mouse) Lysate at 40 ug Primary: Anti- Phospho-TFEB(Ser142) (bs-22337R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD

SELECTED CITATIONS

- **[IF=6.59]** Dan Zhang. et al. Fagopyrum dibotrys extract alleviates hepatic steatosis and insulin resistance, and alters autophagy and gut microbiota diversity in mouse models of high-fat diet-induced non-alcoholic fatty liver disease. FRONT NUTR. 2022; 9: 993501 WB ;Mouse. 36451739
- **[IF=4.8]** Yunxia Sun. et al. Acteoside improves adipocyte browning by CDK6-mediated mTORC1-TFEB pathway. BBA-MOL CELL BIOL L. 2023 Sep;1868:159364 WB ;Mouse. 37433343
- **[IF=4.5]** Di Ouyang. et al. mTORC1 - TFEB pathway was involved in sodium arsenite induced lysosomal alteration, oxidative stress and genetic damage in BEAS-2B cells. TOXICOLOGY. 2024 May;504:153795 WB ;Human. 38574842
- **[IF=4.8]** Liu Xiaoliang. et al. Dihydromyricetin restores lysosomal function in Schwann cells to alleviate bortezomib-induced peripheral neuropathy via ERK/TFEB signaling. ARCH TOXICOL. 2025 Apr;:1-15 WB ;Rat. 40188411
- **[IF=3.412]** Hao Yu. et al. Activation of Transcription Factor EB Is Associated With Adipose Tissue Lipolysis in Dairy Cows With Subclinical Ketosis. Front Vet Sci. 2022; 9: 816064 WB ;Cow(Calve). 35211541