SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Phospho-TFEb (Ser142)antibody

Catalog Number: SL22337R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Phospho-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.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Horse,Rabbit)
Predicted MW.:	52kDa
Subcellular Location:	The nucleus cytoplasmic
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. **Function:** Transcription factor that specifically recognizes and binds E-box sequences (3'-CANNTG-5'). Efficient DNA-binding requires dimerization with itself or with another MiT/TFE family member such as TFE3 or MITF. In association with TFE3, activates the expression of CD40L in T-cells, thereby playing a role in T-cell-dependent antibody responses in activated CD4(+) T-cells and thymus-dependent humoral immunity. Specifically recognizes and binds the CLEAR-box sequence (5'-GTCACGTGAC-3') present in the regulatory region of many lysosomal genes, leading to activate their

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	expression. It thereby plays a central role in expression of lysosomal genes. Specifically recognizes the gamma-E3 box, a subset of E-boxes, present in the heavy-chain immunoglobulin enhancer. Plays a role in the signal transduction processes required for normal vascularization of the placenta. **Subunit:** Homodimer and heterodimer; with TFE3 or MITF. **Subcellular Location:** Cytoplasm. Nucleus. Note=Mainly present in the cytoplasm. Under aberrant lysosomal storage conditions, it translocates from the cytoplasm to the nucleus. **Post-translational modifications:** Sumoylated; does not affect dimerization with MITF. **Similarity:** Belongs to the MiT/TFE family. Contains 1 basic helix-loop-helix (bHLH) domain. **Database links:** **Entrez Gene:** 7942 Human **Entrez Gene:** 510032 Cow **Entrez Gene:** 609046 Dog **Entrez Gene:** 21425 Mouse **Entrez Gene:** 100157940 Pig **Entrez Gene:** 316214 Rat Omim: 600744 Human **SwissProt:** P19484 Human **SwissProt:** Q9R210 Mouse **Unigene:** 485360 Human **Unigene:** 715310 Human **Unigene:** 2305 Mouse **Unigene:** 22098 Rat

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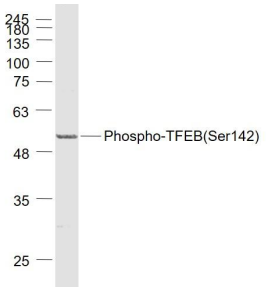
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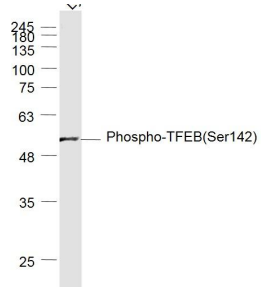
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[VALIDATION IMAGES]



Sample:
Pancreas (Mouse) Lysate at 40 ug
Primary: Anti- Phospho-TFEB(Ser142) (SL22337R) 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) (SL22337R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 52 kD
Observed band size: 52 kD

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