

Human TFEB (Transcription factor EB) ELISA Kit | TFEB elisa kit

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CATALOG #
AAA27645

REACTIVITY
Human

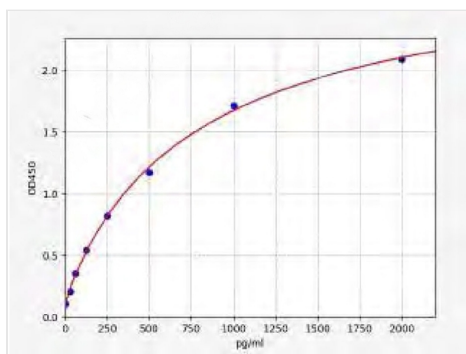
PRODUCT SYNONYMS

TFEB (Transcription factor EB); Human TFEB (Transcription factor EB) ELISA Kit; Transcription factor EB; Class E basic helix-loop-helix protein 35; bHLHe35; TFEB; BHLHE35; TFEB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize TFEB, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TFEB elisa kit	Background: The transcription factor EB (TFEB) plays a pivotal role in the regulation of basic cellular processes, such as lysosomal biogenesis and autophagy. Phosphorylated TFEB is retained in the cytoplasm, whereas dephosphorylated TFEB translocates to the nucleus to induce the transcription of target genes. TFEB is also involved in physiological processes, such as lipid catabolism.Diseases associated with TFEB include Renal Cell Carcinoma, Xp11-Associated and Pycnodysostosis.Among its related pathways are Autophagy in pancreatic ductal adenocarcinoma and Type 2 papillary renal cell carcinoma. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti TFEB antibody was precoated onto the 96-well plate. The biotin conjugated anti TFEB antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with TFEB conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of TFEB in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	429836865
NCBI GeneID	7942
NCBI Accession #	NP_001161299.2
NCBI GenBank Nucleotide #	NM_001167827.2
UniProt Accession #	P19484; Q709B3; Q7Z6P9; Q9BRJ5; Q9UJD8
Molecular Weight	52 KD
NCBI Official Full Name	transcription factor EB isoform 2
NCBI Official Synonym Full Names	transcription factor EB
NCBI Official Symbol	TFEB
NCBI Official Synonym Symbols	TCFEB; BHLHE35; ALPHATFEB
NCBI Protein Information	transcription factor EB; T-cell transcription factor EB; class E basic helix-loop-helix protein 35
UniProt Protein Name	Transcription factor EB
UniProt Gene Name	TFEB
UniProt Synonym Gene Names	BHLHE35; bHLHe35
UniProt Entry Name	TFEB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.