

Product datasheet

Anti-TFEB antibody - ChIP Grade ab122910

★★★★☆ 1 Abreviews 5 References 3 Images

Overview

<b>Product name</b>	Anti-TFEB antibody - ChIP Grade
<b>Description</b>	Goat polyclonal to TFEB - ChIP Grade
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-P, ELISA, ChIP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow, Dog, Pig, Xenopus tropicalis 
<b>Immunogen</b>	Synthetic peptide: ASRIGLRMQLMRE conjugated to KLH, corresponding to N terminal amino acids 2-14 of Human TFEB. <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	<div style="border: 1px solid #ccc; padding: 5px; display: inline-block;">Purchase matching WB positive control: <b>Recombinant Human TFEB protein</b> &gt;</div> Human Tonsil tissue; Human thymus lysate.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab122910** in the following tested applications.

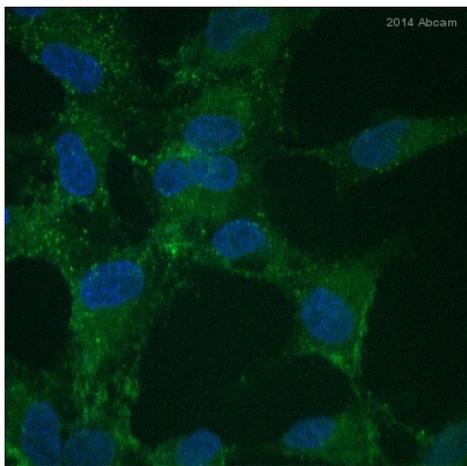
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★☆	Use at an assay dependent concentration.
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 53 kDa.
IHC-P		Use a concentration of 5 µg/ml.
ELISA		Use at an assay dependent concentration.
ChIP		Use at an assay dependent concentration.

## Target

<b>Function</b>	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 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.
<b>Sequence similarities</b>	Belongs to the MiT/TFE family. Contains 1 basic helix-loop-helix (bHLH) domain.
<b>Domain</b>	The leucine zipper region is essential for homo- or heterodimerization and high-affinity DNA binding. DNA binding is mediated by the basic region.
<b>Post-translational modifications</b>	Sumoylated; does not affect dimerization with MITF.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Mainly present in the cytoplasm. Under aberrant lysosomal storage conditions, it translocates from the cytoplasm to the nucleus.

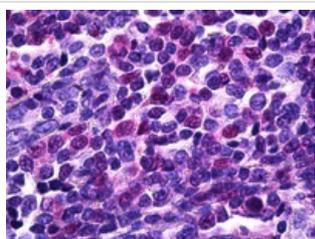
## Images



Immunocytochemistry/ Immunofluorescence - Anti-TFEB antibody - ChIP Grade (ab122910)

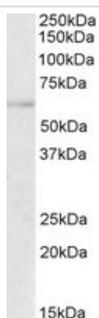
This image is courtesy of an anonymous Abreview

ab122910 staining TFEB in human A549 lung cancer cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 pH 7 for 5 minutes at room temperature and blocked with 5% BSA for 20 minutes at room temperature. Samples were incubated with primary antibody (1/100 in PBS) for 1 hour. A CF488A-conjugated Donkey anti-goat IgG polyclonal (1/500) was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TFEB antibody - ChIP Grade (ab122910)

ab122910, at 3.75 µg/ml, staining TFEB in Formalin-fixed, Paraffin-embedded Human Tonsil tissue by Immunohistochemistry.



Western blot - Anti-TFEB antibody - ChIP Grade (ab122910)

Anti-TFEB antibody - ChIP Grade (ab122910) at 0.5 µg/ml + Human thymus lysate (in RIPA buffer) at 35 µg

Developed using the ECL technique.

**Predicted band size: 53 kDa**

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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