


Product datasheet

Anti-TFE3 antibody ab93808

★★★★★ [1 Abreviews](#) [8 References](#) [2 Images](#)

Overview

Product name	Anti-TFE3 antibody
Description	Rabbit polyclonal to TFE3
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Chinese hamster, Elephant 
Immunogen	Synthetic peptide from a region within amino acids 500-550 of Human TFE3 (NP_006512.2)
Positive control	HeLa and 293T cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab93808 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
WB		1/2000 - 1/10000. Predicted molecular weight: 62 kDa.
IP		Use a concentration of 2 - 5 µg/ml.

Target

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 TFEB or MITF. In association with TFEB, 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 the MUE3 box, a subset of E-boxes, present in the immunoglobulin enhancer. It also binds very well to a USF/MLTF site.

Tissue specificity

Ubiquitous in fetal and adult tissues.

Involvement in disease

Note=A chromosomal aberration involving TFE3 is found in patients with alveolar soft part sarcoma. Translocation t(X;17)(p11;q25) with ASPSCR1 forms a ASPSCR1-TFE3 fusion protein.

Note=Chromosomal aberrations involving TFE3 are found in patients with papillary renal cell carcinoma. Translocation t(X;1)(p11.2;q21.2) with PRCC; translocation t(X;1)(p11.2;p34) with PSF; inversion inv(X)(p11.2;q12) that fuses NONO to TFE3.

Sequence similarities

Belongs to the Mit/TFE family.
Contains 1 basic helix-loop-helix (bHLH) domain.

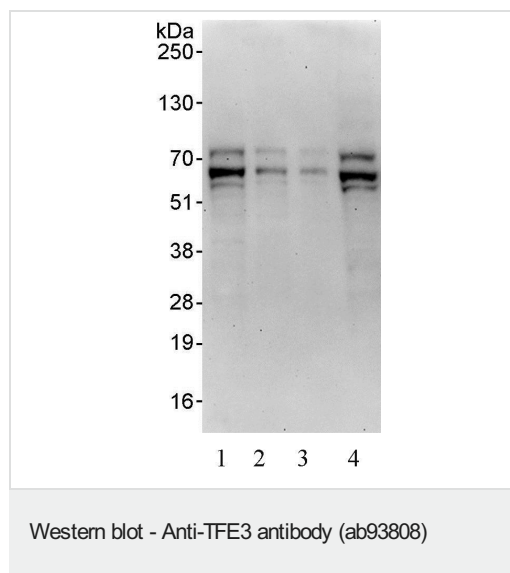
Post-translational modifications

Sumoylated; does not affect dimerization with MITF.

Cellular localization

Nucleus.

Images



All lanes : Anti-TFE3 antibody (ab93808) at 0.04 µg/ml

Lane 1 : HeLa whole lysate at 50 µg

Lane 2 : HeLa whole lysate at 15 µg

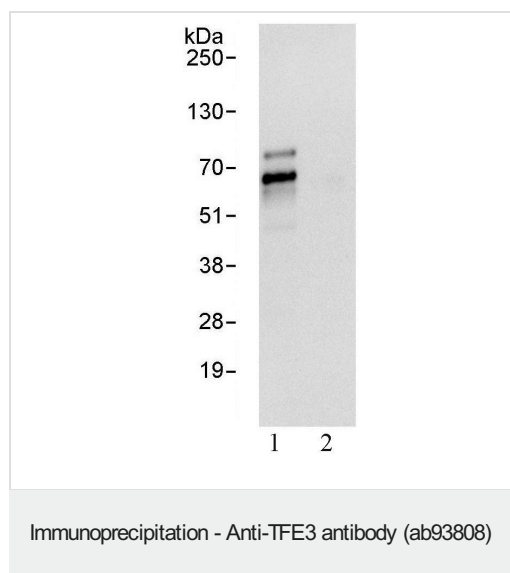
Lane 3 : HeLa whole lysate at 5 µg

Lane 4 : 293T cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 62 kDa

Exposure time: 3 minutes



1 mg HeLa cell lysate was immunoprecipitated with 3µg/mg ab93808 (lane 1) or control IgG (lane 2). 20% of the immunoprecipitates were analysed by Western blot. Bands were analysed using ab93808 at 0.4µg/ml and developed using cheiluminescence.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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