



Rabbit Anti-TFE3 antibody

SL8569R

Product Name:	TFE3
Chinese Name:	转录因子E3
Alias:	bHLH e33; bHLHe33; Class E basic helix-loop-helix protein 33; RCCP 2; RCCP2; Renal cell carcinoma, papillary; Tcfe 3; Tcfe3; TFE 3; Tfe3; TFE3_HUMAN; TFEA; Transcription factor binding to IGHM enhancer 3; Transcription factor E family, member A; Transcription factor E3; Transcription factor for IgH enhancer.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	62kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TFE3:355-460/575
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The DNA-binding factor TFE3 contains adjacent helix-loop-helix (HLH) and leucine zipper (LZ) domains flanked by an upstream basic region. These protein motifs are frequently observed in other transcription factors and are particularly common to members of the Myc family. TFE3 is ubiquitously expressed and can directly associates

with DNA as either homodimers or heterodimers formed with two related proteins, TFEB or TFEC. TFE3 binds to and activates the microE3 motif of the immunoglobulin heavy-chain enhancer to induce B-cell-specific gene transcription and DNA recombination. TFEB binds to the major late promoter of adenovirus and specifically associates with DNA as both a homodimer and a heterodimer with TFE3. TFEB is expressed at low levels in the embryo but at high levels in the trophoblast cells of the placenta, where it plays a critical role in regulating normal vascularization of the placenta. TFEC shares a bHLH/LZ structure with TFE3 and a closely related protein microphthalmia-associated transcription factor (MITF), which is critically involved in melanocyte differentiation. Unlike TFE3, the expression of TFEC is largely restricted to fibroblasts, myoblasts, chondrosarcoma cells, and myeloma cells.

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.

Subunit:

Homodimer and heterodimer; with TFEB or MITF.

Subcellular Location:

Nucleus.

Tissue Specificity:

Ubiquitous in fetal and adult tissues.

Post-translational modifications:

Sumoylated; does not affect dimerization with MITF. [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.

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.

Similarity:

Belongs to the MiT/TFE family.

Contains 1 basic helix-loop-helix (bHLH) domain.

SWISS:
P19532

Gene ID:
7030

Database links:

[Entrez Gene: 7030](#)Human

[Entrez Gene: 209446](#)Mouse

[Entrez Gene: 317376](#)Rat

[Omir: 314310](#)Human

[SwissProt: Q05B92](#)Cow

[SwissProt: P19532](#)Human

[SwissProt: Q64092](#)Mouse

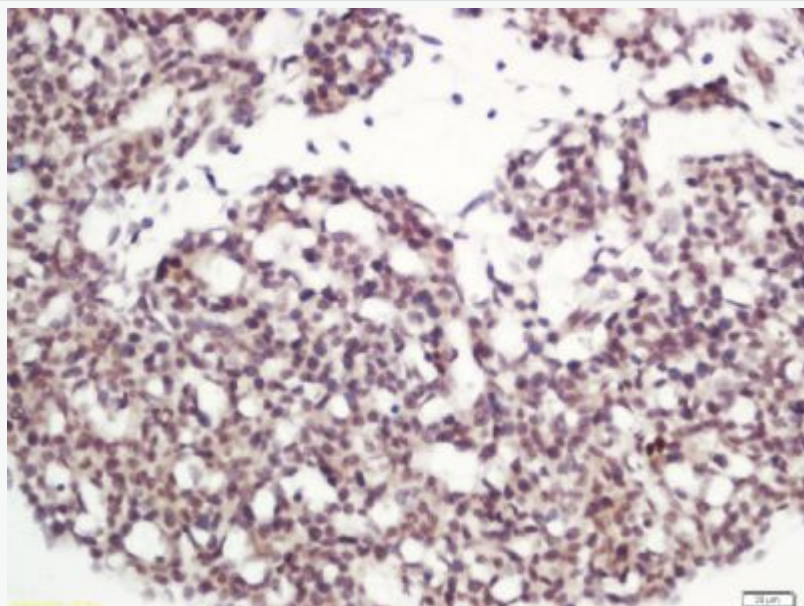
[Unigene: 249142](#)Mouse

[Unigene: 9231](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-TFE3 Polyclonal Antibody, Unconjugated(SL8569R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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