

Rabbit anti-Human, mouse TFE3 Polyclonal Antibody | anti-TFE3 antibody

TFE3 Antibody (N-term)

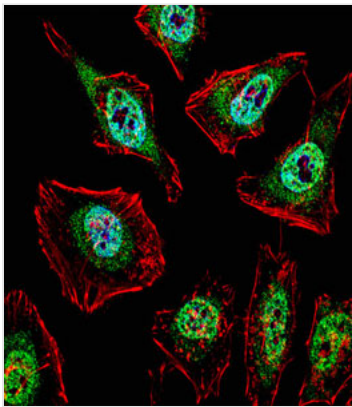
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288817	Rabbit	Human, mouse	Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

TFE3; Polyclonal Antibody; TFE3 Antibody (N-term); Transcription factor E3; Class E basic helix-loop-helix protein 33; bHLHe33; BHLHE33; anti-TFE3 antibody

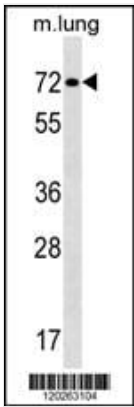
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This TFE3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TFE3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.45 (varies by lot)
Sequence Positions	1-30
Sequence Length	575
Applicable Applications for anti-TFE3 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Clone Names	RB20263
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



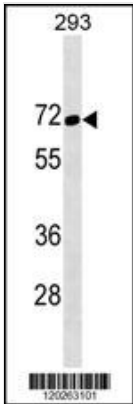
IF (Immunofluorescence)

Fluorescent confocal image of HeLa cell stained with TFE3 Antibody (N-term). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with TFE3 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). TFE3 immunoreactivity is localized to nucleus and Cytoplasm significantly.



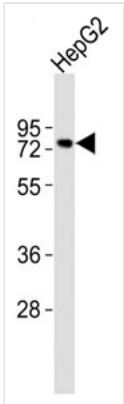
WB (Western Blot)

TFE3 Antibody (N-term) western blot analysis in mouse lung tissue lysates (35ug/lane).This demonstrates the TFE3 antibody detected the TFE3 protein (arrow).



WB (Western Blot)

TFE3 Antibody (N-term) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the TFE3 Antibody detected the TFE3 protein (arrow).



WB (Western Blot)

Anti-TFE3 Antibody (N-term)at 1:2000 dilution + HepG2 whole cell lysatesLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 62 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-TFE3 antibody

The microphthalmia transcription factor/transcription factor E (MITF-TFE) family of basic helix-loop-helix leucine zipper (bHLH-Zip) transcription factors includes four family members: MITF, TFE3, TFEB and TFEC. The TEF3 protein encoded by this gene activates transcription through binding to the muE3 motif of the immunoglobulin heavy-chain enhancer. The TFEC protein forms heterodimers with the TEF3 protein and inhibits TFE3-dependent transcription activation. The TEF3 protein interacts with transcription regulators such as E2F3, SMAD3, and LEF-1, and is involved in TGF-beta-induced transcription, playing important roles in cell growth, proliferation, and osteoclast and macrophage differentiation. The TFE3 protein also activates hepatic IRS-2 gene, and induces hexokinase II (HK2) and insulin-induced gene 1 (INSIG1); it participates in insulin signaling and could be a therapeutic target for diabetes. This gene is also involved in chromosomal translocations, resulting in different fusion gene products in papillary renal cell carcinomas and alveolar soft part sarcomas, such as PRCC-TFE3, RCC17-TFE3, PSF-TFE3, NonO (p54nrb)-TFE3 and ASPL-TFE3.

Product Categories/Family for anti-TFE3 antibody	Crown Antibodies; Immunology
References	Argani, P., et al. Am. J. Surg. Pathol. 34(10):1395-1406(2010) Haudebourg, J., et al. Cancer Genet. Cytogenet. 200(2):75-78(2010) Chang, I.W., et al. Am. J. Surg. Pathol. 33(12):1894-1901(2009) Yamaguchi, T., et al. Acta Cytol. 53(6):693-697(2009) Kuroda, N., et al. Pathol. Int. 59(10):769-770(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	8659574
NCBI GeneID	7030
NCBI Accession #	NP_006512.2
NCBI GenBank Nucleotide #	NM_006521.5
UniProt Accession #	P19532; Q5JU74; Q92757; Q92758; Q99964; A8MZL6
Molecular Weight	61521
NCBI Official Full Name	transcription factor E3 isoform 1
NCBI Official Synonym Full Names	transcription factor binding to IGHM enhancer 3
NCBI Official Symbol	TFE3
NCBI Official Synonym Symbols	TFEA; RCCP2; RCCX1; bHLHe33
NCBI Protein Information	transcription factor E3
UniProt Protein Name	Transcription factor E3
UniProt Gene Name	TFE3
UniProt Synonym Gene Names	BHLHE33; bHLHe33
UniProt Entry Name	TFE3_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tfe3-antibody-immunofluorescence-western-blot-elisa/288817>