

Product Name: KD-Validated TFE3 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00180**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 61.5kDa

Antigen Information

Gene Name	TFE3
Alternative Names	TFE3; Transcription Factor Binding To IGHM Enhancer 3; BHLHe33; TFEA; Class E Basic Helix-Loop-Helix Protein 33; Transcription Factor E3; Transcription Factor For Immunoglobulin Heavy-Chain Enhancer 3; Transcription Factor E Family, Member A; Transcription Factor For IgH Enhancer; BHLHE33; MRXSPF; RCCP2; RCCX1
Gene ID	7030.0
SwissProt ID	P19532
Immunogen	A synthesized peptide derived from human TFE3

Background

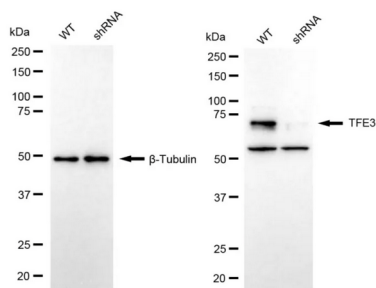
This gene encodes a basic helix-loop-helix domain-containing transcription factor that binds MUE3-type E-box sequences in

the promoter of genes. The encoded protein promotes the expression of genes downstream of transforming growth factor beta (TGF-beta) signaling. This gene may be involved in chromosomal translocations in renal cell carcinomas and other cancers, resulting in the production of fusion proteins. Translocation partners include PRCC (papillary renal cell carcinoma), NONO (non-POU domain containing, octamer-binding), and ASPSCR1 (alveolar soft part sarcoma chromosome region, candidate 1), among other genes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

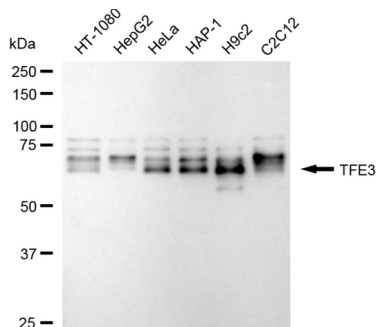
Research Area

Immunology, Epigenetics and Nuclear Signaling

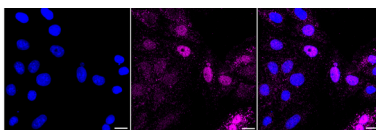
Image Data



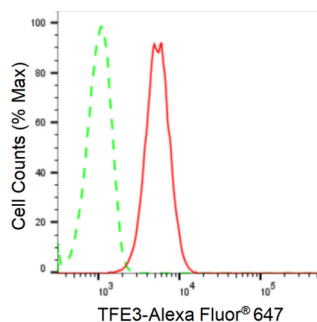
Western blotting analysis using TFE3 antibody (KVA00180). TFE3 expression in wild-type (WT) and TFE3 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with TFE3 antibody (KVA00180, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using TFE3 antibody (KVA00180). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TFE3 antibody (KVA00180, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with TFE3 antibody (KVA00180, 1:1,000). Nuclei were stained blue with DAPI; TFE3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of TFE3 expression in H9c2 cells using TFE3 antibody (KVA00180, 1:2,000). Green, isotype control; red, TFE3.