Product Name: TFE3 Rabbit Polyclonal Antibody
Catalog #: APRab18823
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	62kDa

Antigen Information

Gene Name	TFE3
Alternative Names	TFE3; BHLHE33; Transcription factor E3; Class E basic helix-loop-helix protein 33; bHLHe33
Gene ID	7030.0
SwissProt ID	P19532
Immunogen	The antiserum was produced against synthesized peptide derived from human TFE3. AA range:101-150

Background

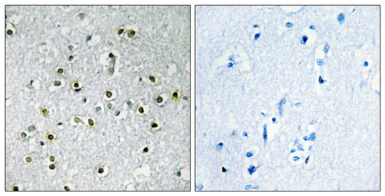
This gene encodes a basic helix-loop-helix domain-containing transcription factor that binds MUE3-type E-box sequences in

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],disease:Chromosomal aberrations involving TFE3 are recurrent in alveolar soft part sarcoma (ASPS) [MIM:606243]. Translocation t(X;17)(p11;q25) with ASPSCR1 forms a ASPSCR1-TFE3 fusion protein.,disease:Chromosomal aberrations involving TFE3 are recurrent in alveolar soft part sarcoma (ASPS). Translocation t(X;17)(p11;q25) with ASPSCR1 forms a ASPSCR1-TFE3 fusion protein.,disease:Chromosomal aberrations involving TFE3 may be a cause of papillary renal cell carcinoma (PRCC) [MIM:605074]. 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.,function:Positive-acting transcription factor that binds to the immunoglobulin enchancer MUE3 motif. It also binds very well to a USF/MLTF site. Binding of TFE3 to DNA induces DNA binding.,similarity:Belongs to the MiT/TFE family.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,subunit:Efficient DNA binding requires dimerization with another bHLH protein.,tissue specificity:Ubiquitous in fetal and adult tissues.,

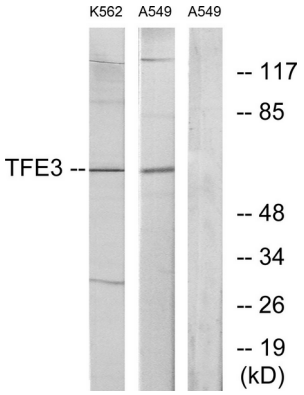
Research Area

Immunology; Adaptive Immunity; T Cells; Non-CDE; pigenetics and Nuclear Signaling; Transcription; Domain Families; HLH / Leucine Zipper; HLH; Cancer susceptibility; Proto-oncogenes

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using TFE3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 and A549 cells, using TFE3 Antibody. The lane on the right is blocked with the synthesized peptide.