Product Name: TFE3 Rabbit Polyclonal Antibody
Catalog #: APRab18823

Summary

Production Name	TFE3 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

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.The antiserum was produced against synthesized peptide derived from human TFE3. AA range:101-150

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000..
Molecular Weight	62kD

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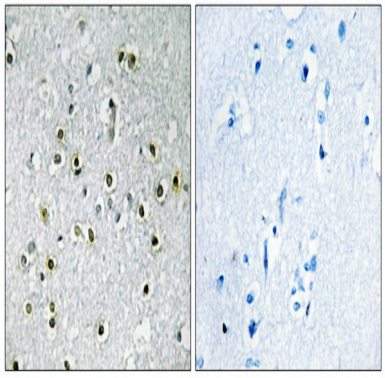
Background

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

Image Data



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

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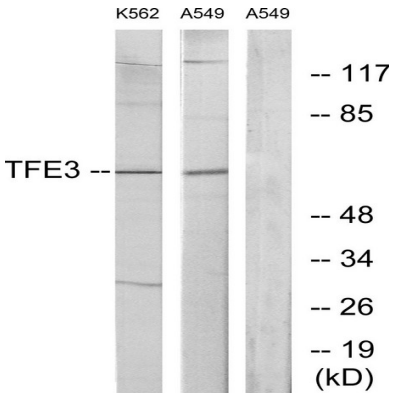

Western blot analysis of lysates from K562 and A549 cells, using TFE3 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.