Best Tools for immunology Research

TFE3 Polyclonal Antibody

Catalog No :	YT4612
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	TFE3
Fields :	>>Mitophagy - animal;>>Transcriptional misregulation in cancer;>>Renal cell carcinoma
Gene Name :	TFE3
Protein Name :	Transcription factor E3
Human Gene Id :	7030
Human Swiss Prot No :	P19532
Mouse Gene Id :	209446
Mouse Swiss Prot No :	Q64092
Immunogen :	The antiserum was produced against synthesized peptide derived from human TFE3. AA range:101-150
Specificity :	TFE3 Polyclonal Antibody detects endogenous levels of TFE3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 62kD

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],

Function : 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-

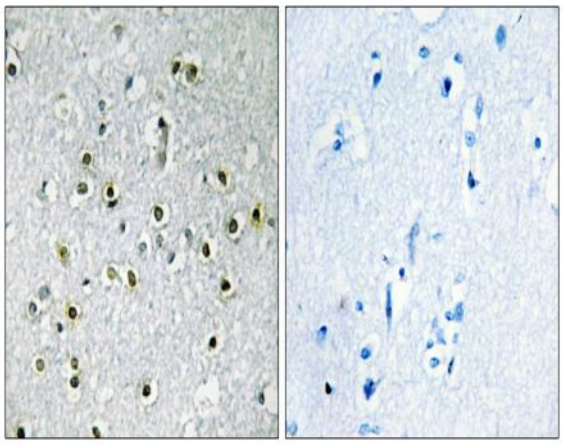
Subcellular Location : Cytoplasm, cytosol . Nucleus . When nutrients are present, phosphorylation by MTOR prevents nuclear translocation and activity (PubMed:22692423, PubMed:30733432). Conversely, inhibition of mTORC1, starvation and lysosomal disruption, promotes dephosphorylation and translocation to the nucleus (PubMed:22692423, PubMed:30733432). .

Expression : Ubiquitous in fetal and adult tissues.

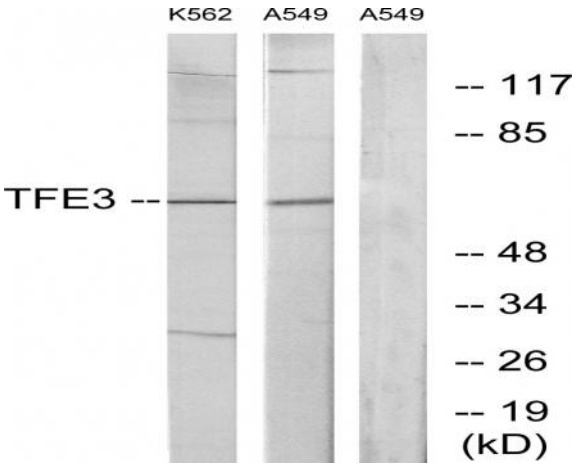
Sort : 17059

No4 : 1

Products Images



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.