

## Immunotag™ TFE3 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT4612
Product Description	Immunotag™ TFE3 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	TFE3
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse
Host Species	Rabbit
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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	TFE3
Accession No.	P19532 Q64092
Alternate Names	TFE3; BHLHE33; Transcription factor E3; Class E basic helix-loop-helix protein 33; bHLHe33

## Antibody Specification

Description	transcription factor binding to IGHM enhancer 3(TFE3) Homo sapiens 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],
Protein Expression	Amygdala,Leukemia,Monocyte,
Subcellular Localization	nucleus,nucleoplasm,cytoplasm,
Protein 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 enhancer 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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.