

**Anti-Human /Mouse /Rat TFE3 Polyclonal Antibody**

**Polyclonal Antibody**

**Cat.NO.: PA03412**

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3th Edition

**Description:** 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. TFE3 (Transcription Factor Binding To IGHM Enhancer 3) is a Protein Coding gene. Diseases associated with TFE3 include Renal Cell Carcinoma, Papillary and Alveolar Soft-Part Sarcoma. Among its related pathways are Mitophagy - animal and Transcriptional misregulation in cancer. GO annotations related to this gene include transcription factor activity, sequence-specific DNA binding and transcription regulatory region DNA binding. An important paralog of this gene is MITF.

**Antigen:** Synthetic peptide of human TFE3

**Form:**

**How to use:** 1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:** PBS (pH7.4) containing 1% BSA

**Application:** This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:** Ubiquitous in fetal and adult tissues.