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TFE3 Rabbit mAb

Catalog No.: A29447 Recombinant

Basic Information

Observed MW
72-89 kDa

Calculated MW
11 kDa/62 kDa

Category
Primary antibody

Applications
WB,IP,IHC-P,ChIP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC4257

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.

Recommended Dilutions

WB	1:3000 - 1:15000
IP	0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
IHC-P	1:500 - 1:2000
ChIP	2 μg antibody for 15 μg - 20 μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
7030

Swiss Prot
P19532

Immunogen
This information is considered to be commercially sensitive.

Synonyms
TFEA; RCCP2; RCCX1; MRXSPF; bHLHe33

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

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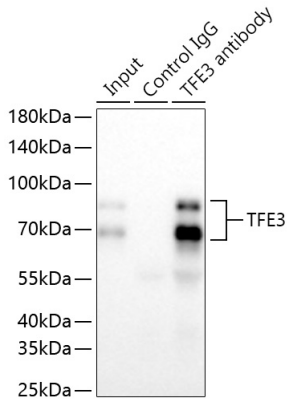
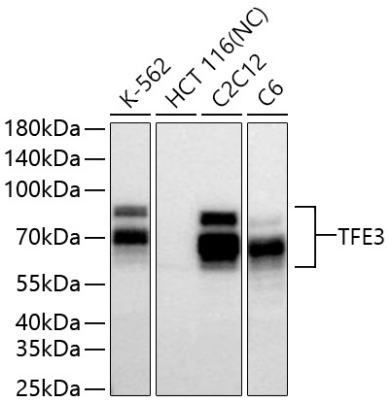
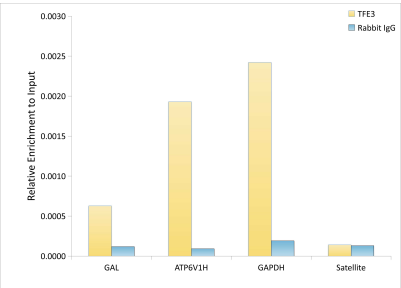
Validation Data



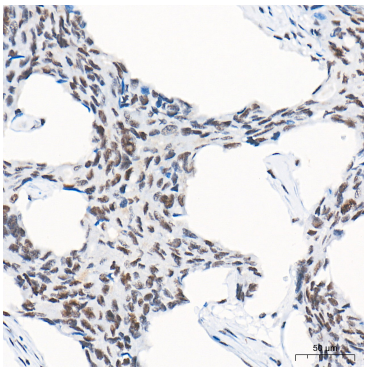
Immunoprecipitation of TFE3 from 300 µg extracts of K-562 cells was performed using 2 µg of TFE3 Rabbit mAb (A29447). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using TFE3 Rabbit mAb (A29447) at a dilution of 1:5000.

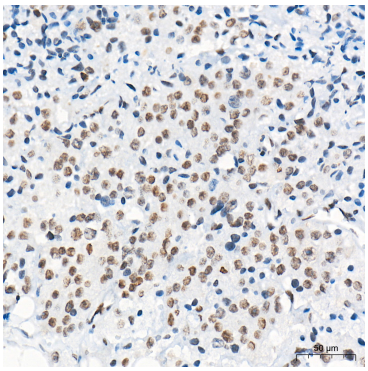


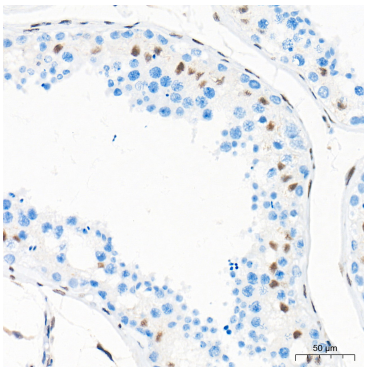
Western blot analysis of various lysates using TFE3 Rabbit mAb (A29447) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): HCT 116.
Exposure time: 10 s.



Chromatin immunoprecipitation was performed with 20 µg of cross-linked chromatin from K-562 cells, using 2 µg of TFE3 Rabbit mAb (A29447) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.





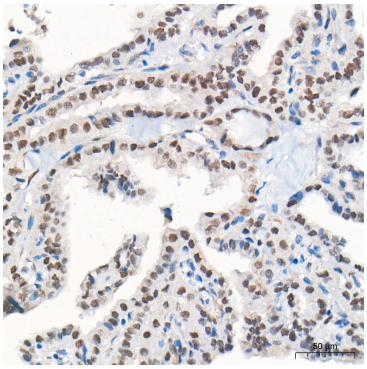


Validation Data

Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using TFE3 Rabbit mAb (A29447) at a dilution of 1:700 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human prostate cancer tissue using TFE3 Rabbit mAb (A29447) at a dilution of 1:700 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human testis tissue using TFE3 Rabbit mAb (A29447) at a dilution of 1:700 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using TFE3 Rabbit mAb (A29447) at a dilution of 1:700 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.