antibodies - online.com







anti-TFE3 antibody (AA 1-30)

Images



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| Overview | | |
|----------------------|--|--|
| Quantity: | 0.4 mL | |
| Target: | TFE3 | |
| Binding Specificity: | AA 1-30 | |
| Reactivity: | Human, Mouse | |
| Host: | Rabbit | |
| Clonality: | Polyclonal | |
| Conjugate: | This TFE3 antibody is un-conjugated | |
| Application: | Western Blotting (WB), ELISA, Immunofluorescence (IF) | |
| Product Details | | |
| Immunogen: | A portion of amino acids 1-30 from the human protein was used as the immunogen for this | |
| | TFE3 antibody. | |
| Isotype: | lg Fraction | |
| Purification: | Antigen affinity purified | |
| Target Details | | |
| Target: | TFE3 | |
| Alternative Name: | TFE3 (TFE3 Products) | |
| Background: | The microphthalmia transcription factor/transcription factor E (MITF-TFE) family of basic helix- | |
| | loop-helix leucine zipper (bHLH-Zip) transcription factors includes four family members: MITF, | |
| | TFE3, TFEB and TFEC. The TEF3 protein encoded by this gene activates transcription through | |
| | The second of the second of the general activated transcription through | |

binding to the muE3 motif of the immunoglobulin heavy-chain enhancer. The TFEC protein forms heterodimers with the TEF3 protein and inhibits TFE3-dependent transcription activation. The TEF3 protein interacts with transcription regulators such as E2F3, SMAD3, and LEF-1, and is involved in TGF-beta-induced transcription, playing important roles in cell growth, proliferation, and osteoclast and macrophage differentiation. The TFE3 protein also activates hepatic IRS-2 gene, and induces hexokinase II (HK2) and insulin-induced gene 1 (INSIG1), it participates in insulin signaling and could be a therapeutic target for diabetes. This gene is also involved in chromosomal translocations, resulting in different fusion gene products in papillary renal cell carcinomas and alveolar soft part sarcomas, such as PRCC-TFE3, RCC17-TFE3, PSF-TFE3, Non0 (p54nrb)-TFE3 and ASPL-TFE3.

Titration of the TFE3 antibody may be required due to differences in protocols and

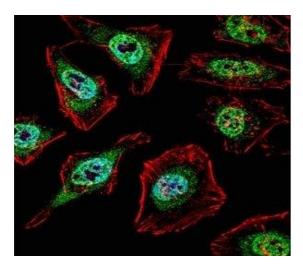
UniProt:

P19532

Application Details

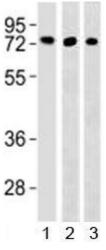
Application Notes:

| | secondary/substrate sensitivity.\. Western blot: 1:1000,Immunofluorescence: 1:10-1:50 | |
|--------------------|--|--|
| Restrictions: | For Research Use only | |
| Handling | | |
| Format: | Liquid | |
| Buffer: | In 1X PBS, pH 7.4, with 0.09 % sodium azide | |
| Preservative: | Sodium azide | |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. | |
| Storage: | -20 °C | |
| Storage Comment: | Aliquot the TFE3 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles. | |



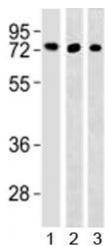
Immunofluorescence

Image 1. Fluorescent confocal image of HeLa cell stained with TFE3 antibody. Alexa Fluor 488 conjugated secondary (green) was used. TFE3 immunoreactivity is localized to the nucleus and cytoplasm.



Western Blotting

Image 2. Western blot testing of TFE3 antibody and 1) HepG2, 293 and 3) mouse lung lysate



Western Blotting

Image 3. Western blot testing of TFE3 antibody and 1) HepG2, 293 and 3) mouse lung lysate