



转录因子 E3

产品货号 : mlR8569

英文名称 : TFE3

中文名称 : 转录因子 E3

别 名 : bHLH e33; bHLHe33; Class E basic helix-loop-helix protein 33; RCCP 2; RCCP2; Renal cell carcinoma, papillary; Tcfe 3; Tcfe3; TFE 3; Tfe3; TFE3_HUMAN; TFEA; Transcription factor binding to IGHM enhancer 3; Transcription factor E family, member A; Transcription factor E3; Transcription factor for IgH enhancer.

研究领域 : 肿瘤 细胞生物 免疫学 转录调节因子 t-淋巴细胞 表观遗传学

抗体来源 : Rabbit

克隆类型 : Polyclonal

交叉反应 : Human, Mouse, Rat, Dog, Pig, Cow, Horse,

产品应用 : ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 (石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量 : 62kDa

细胞定位 : 细胞核

性 状 : Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human TFE3:355-460/575



亚型 : IgG

纯化方法 : affinity purified by Protein A

储存液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed : PubMed

产品介绍 : The DNA-binding factor TFE3 contains adjacent helix-loop-helix (HLH) and leucine zipper (LZ) domains flanked by an upstream basic region. These protein motifs are frequently observed in other transcription factors and are particularly common to members of the Myc family. TFE3 is ubiquitously expressed and can directly associates with DNA as either homodimers or heterodimers formed with two related proteins, TFEB or TFEC. TFE3 binds to and activates the microE3 motif of the immunoglobulin heavy-chain enhancer to induce B-cell-specific gene transcription and DNA recombination. TFEB binds to the major late promoter of adenovirus and specifically associates with DNA as both a homodimer and a heterodimer with TFE3. TFEB is expressed at low levels in the embryo but at high levels in the trophoblast cells of the placenta, where it plays a critical role in regulating normal vascularization of the placenta. TFEC shares a bHLH/LZ structure with TFE3 and a closely related protein microphthalmia-associated transcription factor (MITF), which is critically involved in melanocyte differentiation. Unlike TFE3, the expression of TFEC is largely restricted to fibroblasts, myoblasts, chondrosarcoma cells, and myeloma cells.

Function:

Transcription factor that specifically recognizes and binds E-box sequences (3'-CANNTG-5'). Efficient DNA-binding requires dimerization with itself or with another MiT/TFE family member such as TFEB or MITF. In association with TFEB, activates the expression of CD40L in T-cells, thereby playing a role in T-cell-dependent antibody responses in activated CD4(+) T-cells and thymus-dependent humoral immunity. Specifically recognizes the MUE3 box, a subset of E-boxes, present in the immunoglobulin enhancer. It also binds very well to a USF/MLTF site.

Subunit:



Homodimer and heterodimer; with TFEB or MITF.

Subcellular Location:

Nucleus.

Tissue Specificity:

Ubiquitous in fetal and adult tissues.

Post-translational modifications:

Sumoylated; does not affect dimerization with MITF. [DISEASE] Note=A chromosomal aberration involving TFE3 is found in patients with alveolar soft part sarcoma. Translocation t(X;17)(p11;q25) with ASPSCR1 forms a ASPSCR1-TFE3 fusion protein.

DISEASE:

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Note=Chromosomal aberrations involving TFE3 are found in patients with papillary renal cell carcinoma. 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.

Similarity:

Belongs to the MiT/TFE family.

Contains 1 basic helix-loop-helix (bHLH) domain.

SWISS:

P19532

Gene ID:

7030

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

