

Anti-TFE3 Antibody (2N977)

Product Details

Ig Type:	IgG1, Kappa
Reactivity:	Human
Molecular Weight:	Theoretical: 62 kDa. Actual: 65 kDa.
Clone:	2N977
Purification:	Protein A purified

Applications

Verified Activity:	Sample:
	Lane 1: Human K562 cell lysates
	Lane 2: Human HeLa cell lysates
	Lane 3: Human Raji cell lysates
	Lane 4: Human A549 cell lysates
Verified Activity:	Lane 5: Human 293T cell lysates
	Primary: Anti-TFE3 (TMAB-13467) at 1/1000 dilution
	Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
	Predicted band size: 62 kDa
	Observed band size: 65 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human TFE3
Antigen Species:	Human
Gene ID:	7030
Uniprot ID:	P19532

Research Background

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 associate 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

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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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