TFE3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TFE3, Polyclonal Antibody
Full Product Name	TFE3, NT (TFE3, BHLHE33, Transcription factor E3, Class E basic helix-loop-helix protein 33) (MaxLight 650)
Product Gene Name	anti-TFE3 antibody
Product Synonym Names	TFE3; BHLHE33; Transcription factor E3; Class E basic helix-loop-helix protein 33
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	61,521 Da
Chromosome Location	Chromosome: X; NC_000023.10 (48886242..48900990, complement). Location: Xp11.22
OMIM	314310
3D Structure	ModBase 3D Structure for P19532
Immunogen	TFE3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TFE3.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-TFE3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TFE3 antibody	Western Blot (WB), FLISA
Application Notes for anti-TFE3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TFE3 antibody	MaxLight650 is a new Far-IR stable dye conjugate comparable to Alexa Fluor647, DyLight649, Cy5 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (655nm); Emission (676nm); Extinction Coefficient 250,000.
Product References and Citations for anti-TFE3 antibody	Argani, P., et al. Am. J. Surg. Pathol. 34(10):1395-1406(2010). Haudebourg, J., et al. Cancer Genet. Cytogenet. 200(2):75-78(2010). Chang, I.W., et al. Am. J. Surg. Pathol. 33(12):1894-1901(2009). Yamaguchi, T., et al. Acta Cytol. 53(6):693-697(2009). Kuroda, N., et al. Pathol. Int. 59(10):769-770(2009).

Other Notes	Small volumes of anti-TFE3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TFE3 purchase	MBS6355060 is an antibody targeting TFE3. Also known as TFE3, NT (TFE3, BHLHE33, Transcription factor E3, Class E basic helix-loop-helix protein 33) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TFE3. It may not necessarily be applicable to this product.

NCBI GI #	8659574
NCBI GeneID	7030
NCBI Accession #	NP_006512
UniProt Primary Accession #	P19532
UniProt Secondary Accession #	Q92757; Q92758; Q99964; A8MZL6
UniProt Related Accession #	P19532
GenBank Nucleotide #	NM_006521
NCBI Official Full Name	transcription factor E3
NCBI Official Synonym Full Names	transcription factor binding to IGHM enhancer 3
NCBI Official Symbol	TFE3
NCBI Official Synonym Symbols	TFEA; RCCP2; RCCX1; bHLHe33
UniProt Protein Name	Transcription factor E3
UniProt Synonym Protein Names	Class E basic helix-loop-helix protein 33
Protein Family	Transcription factor
UniProt Gene Name	TFE3
UniProt Synonym Gene Names	BHLHE33; bHLHe33
UniProt Entry Name	TFE3_HUMAN
NCBI Protein Information	transcription factor E3; Transcription factor for IgH enhancer; transcription factor E family, member A; class E basic helix-loop-helix protein 33

UniProt Comments for TFE3	TFE3: Transcription factor that specifically recognizes and binds E-box sequences (5'-CANNTG-3'). 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. 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. 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. Belongs to the MiT/TFE family. Protein type: Oncoprotein; Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: Xp11.22 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein dimerization activity; transcription factor activity Biological Process: regulation of osteoclast differentiation; positive regulation of cell adhesion; transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter; humoral immune response Disease: Renal Cell Carcinoma, Xp11-associated
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