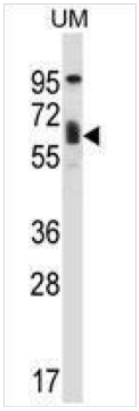
TCF3 Antibody – Rabbit Polyclonal

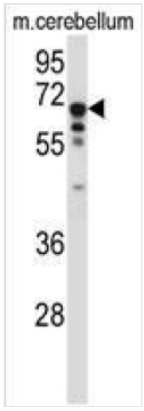
PRODUCT OVERVIEW

Product Name	TCF3, Polyclonal Antibody
Full Product Name	TCF3, CT (TCF3, BHLHB21, E2A, ITF1, Transcription factor E2-alpha, Class B basic helix-loop-helix protein 21, Immunoglobulin enhancer-binding factor E12/E47, Immunoglobulin transcription factor 1, Kappa-E2-binding factor, Transcription factor 3, Transcrip
Product Gene Name	anti-TCF3 antibody
Product Synonym Names	TCF3; BHLHB21; E2A; ITF1; Transcription factor E2-alpha; Class B basic helix-loop-helix protein 21; Immunoglobulin enhancer-binding factor E12/E47; Immunoglobulin transcription factor 1; Kappa-E2-binding factor; Transcription factor 3; Transcription factor ITF-1
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human TCF3. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	68,510 Da
OMIM	147141
3D Structure	ModBase 3D Structure for P15923
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 506-534 in the C-terminal region of human TCF3.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-TCF3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-TCF3 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-TCF3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TCF3 antibody	MBS6354494 is an antibody targeting TCF3. Also known as TCF3, CT (TCF3, BHLHB21, E2A, ITF1, Transcription factor E2-alpha, Class B basic helix-loop-helix protein 21, Immunoglobulin enhancer-binding factor E12/E47, Immunoglobulin transcription factor 1, Kappa-E2-binding factor, Transcription factor 3, Transcrip. Reactive in Human, Mouse. Host: Rabbit.

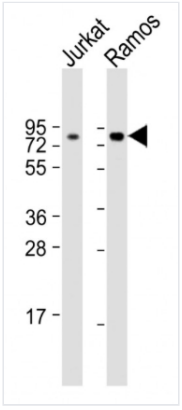
Product References and Citations for anti-TCF3 antibody	1. Hirose, K., et al. Blood 116(6):962-970(2010). 2. Pan, F., et al. Immunogenetics 62(4):237-251(2010). 3. Hauser, J., et al. Mol. Immunol. 47(5):1031-1038(2010). 4. Rittie, L., et al. Aging Cell 8(6):738-751(2009). 5. Pedraza, N., et al. J. Biol. Chem. 284(47):32980-32988(2009).
Other Notes	Small volumes of anti-TCF3 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.



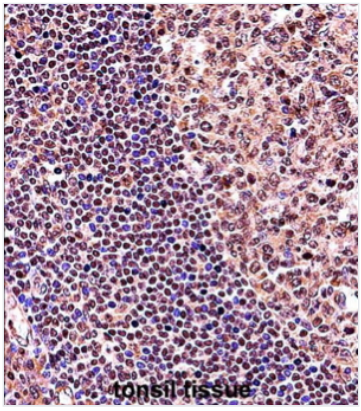
Western Blot (WB) of anti-TCF3 antibody
Western Blot analysis in human uterine tumor tissue lysates (35ug/lane) usingMBS6013650. This demonstrates that MBS6013650 detected the TCF3 protein (arrow).



Western Blot (WB) of anti-TCF3 antibody
Western Blot analysis in mouse cerebellum tissue lysates (35ug/lane) usingMBS6013650. This demonstrates that MBS6013650 detected the TCF3 protein (arrow).



Western Blot (WB) of anti-TCF3 antibody
Western Blot using MBS6013650 (1:1000) Lane 1: Jurkat whole cell lysate Lane 2: Ramos whole cell lysate Lysates/proteins at 20ug/lane. Secondary IgG (HRP) Goat Anti-Rabbit IgG, (H+L), at 1:10,000. Predicted band size: 68kD. Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (IHC) of anti-TCF3 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue using MBS6013650 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6013650 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TCF3. It may not necessarily be applicable to this product.

NCBI GI #	27777636
NCBI GeneID	6929
NCBI Accession #	NP_003191.1
NCBI Related Accession #	NP_001129611.1
UniProt Primary Accession #	P15923
UniProt Secondary Accession #	P15883; Q14208; Q14635; Q14636; Q2TB39; Q2TB40; Q9UPI9
UniProt Related Accession #	P15923
GenBank Nucleotide #	NM_003200.3
NCBI Official Full Name	transcription factor E2-alpha isoform E12

NCBI Official Synonym Full Names	transcription factor 3
NCBI Official Symbol	TCF3
NCBI Official Synonym Symbols	E2A; E47; AGM8; ITF1; VDIR; TCF-3; bHLHb21
UniProt Protein Name	Transcription factor E2-alpha
UniProt Synonym Protein Names	Class B basic helix-loop-helix protein 21; bHLHb21; Immunoglobulin enhancer-binding factor E12/E47; Immunoglobulin transcription factor 1; Kappa-E2-binding factor; Transcription factor 3; TCF-3; Transcription factor ITF-1
Protein Family	Transcription factor
UniProt Gene Name	TCF3
UniProt Synonym Gene Names	BHLHB21; E2A; ITF1; bHLHb21; TCF-3
UniProt Entry Name	TFE2_HUMAN
NCBI Protein Information	transcription factor E2-alpha
NCBI Summary for TCF3	This gene encodes a member of the E protein (class I) family of helix-loop-helix transcription factors. E proteins activate transcription by binding to regulatory E-box sequences on target genes as heterodimers or homodimers, and are inhibited by heterodimerization with inhibitor of DNA-binding (class IV) helix-loop-helix proteins. E proteins play a critical role in lymphopoiesis, and the encoded protein is required for B and T lymphocyte development. Deletion of this gene or diminished activity of the encoded protein may play a role in lymphoid malignancies. This gene is also involved in several chromosomal translocations that are associated with lymphoid malignancies including pre-B-cell acute lymphoblastic leukemia (t(1;19), with PBX1), childhood leukemia (t(19;19), with TFPT) and acute leukemia (t(12;19), with ZNF384). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, Sep 2011]
UniProt Comments for TCF3	E2A: a transcription factor that plays major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation. Heterodimers between E2A and tissue-specific basic helix-loop-helix (bHLH) Dimers bind DNA on E-box motifs: 5'- CANNTG-3'. Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer. Deletions in E2A have been observed in a subset of pre-B-cell acute lymphoblastic leukemia (B-ALL) cases. Two alternatively spliced human isoforms have been described. Protein type: Oncoprotein; DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: nucleoplasm; transcription factor complex; protein complex; cytoplasm; nuclear chromatin; nucleus Molecular Function: protein binding; protein homodimerization activity; DNA binding; protein heterodimerization activity; sequence-specific DNA binding; transcription coactivator activity; bHLH transcription factor binding; chromatin binding; mitogen-activated protein kinase kinase kinase binding; transcription factor binding; transcription factor activity Biological Process: Peyer's patch development; response to drug; protein stabilization; transcription, DNA-dependent; immunoglobulin V(D)J recombination; positive regulation of transcription, DNA-dependent; B cell lineage commitment; T cell differentiation in the thymus; positive regulation of cell cycle; response to lipopolysaccharide; negative regulation of transcription from RNA polymerase II promoter; muscle cell differentiation; regulation of transcription, DNA-dependent; natural killer cell differentiation; B cell differentiation; positive regulation of B cell proliferation; positive regulation of muscle cell differentiation; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; positive regulation of neuron differentiation; cell development
Research Articles on TCF3	**1.** Over expression of E47 reprograms human pancreatic cancer cells to a quiescent acinar state with reduced tumorigenic potential.

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