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TCF3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13991b

Specification

TCF3 Antibody (C-term) - Product Information

Application	**WB, FC, IHC-P,E**
Primary Accession	P15923
Other Accession	NP_003191.1, NP_001129611.1
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**67600**
Antigen Region	**506-534**

TCF3 Antibody (C-term) - Additional Information

Gene ID 6929

Other Names
Transcription factor E2-alpha, 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, TCF3, BHLHB21, E2A, ITF1

Target/Specificity
This TCF3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 506-534 amino acids from the C-terminal region of human TCF3.

Dilution
WB~~1:1000
FC~~1:10~50
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TCF3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TCF3 Antibody (C-term) - Protein Information

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Name TCF3

Synonyms BHLHB21, E2A, ITF1

Function Transcriptional regulator involved in the initiation of neuronal differentiation and mesenchymal to epithelial transition (By similarity). Heterodimers between TCF3 and tissue-specific basic helix- loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation (By similarity). Together with TCF15, required for the mesenchymal to epithelial transition (By similarity). Dimers bind DNA on E-box motifs: 5'-CANNTG-3' (By similarity). Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer (PubMed:2493990). Binds to IEB1 and IEB2, which are short DNA sequences in the insulin gene transcription control region (By similarity).

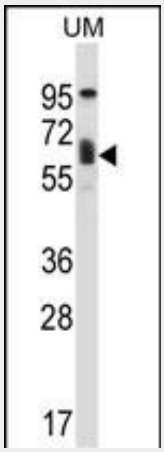
Cellular Location
Nucleus.

TCF3 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TCF3 Antibody (C-term) - Images



TCF3 Antibody (C-term) (Cat. #AP13991b) western blot analysis in human uterine tumor tissue lysates (35ug/lane).This demonstrates the TCF3 antibody detected the TCF3 protein (arrow).

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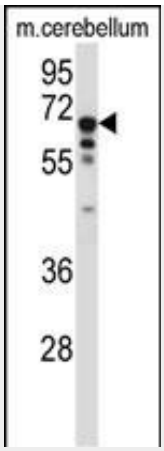
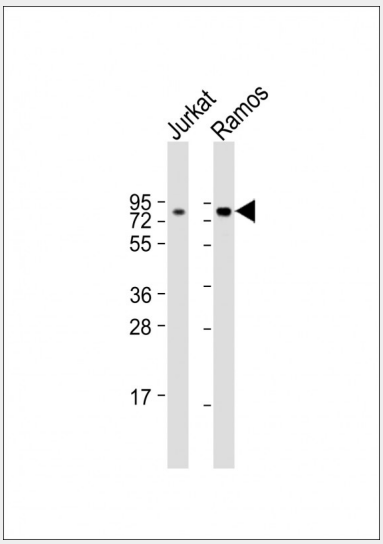
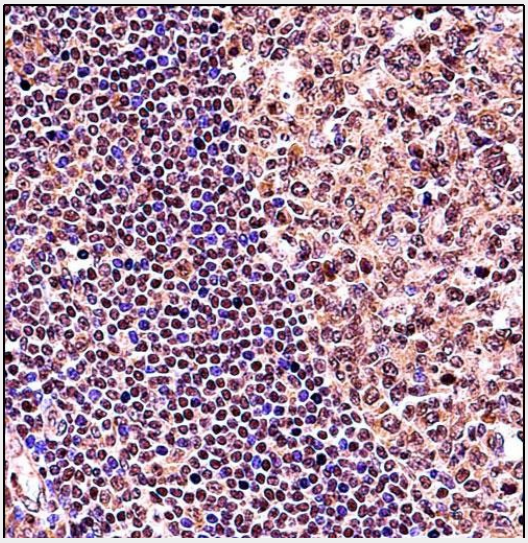


TCF3 Antibody (C-term) (Cat. #AP13991b) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the TCF3 antibody detected the TCF3 protein (arrow).



All lanes : Anti-TCF3 Antibody (C-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: Ramos whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 68 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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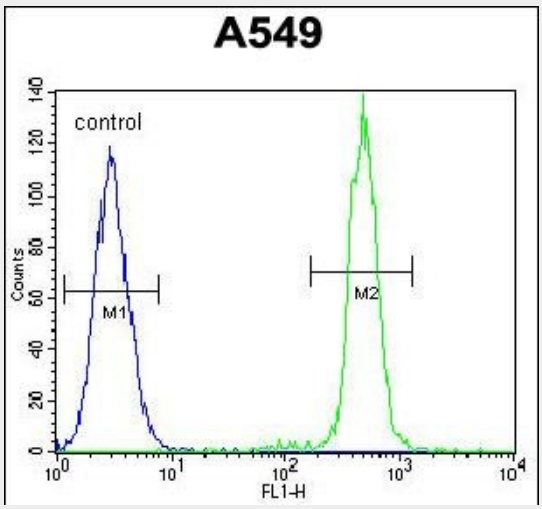
TCF3 Antibody (C-term) (Cat. #AP13991b)immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TCF3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



TCF3 Antibody (C-term) (Cat. #AP13991b) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

TCF3 Antibody (C-term) - Background

The TCF3 gene, also called E2A, encodes 2 basic helix-loop-helix (bHLH) transcription factors, E12 and E47, through alternative splicing. E12 and E47 are involved in regulation of immunoglobulin gene expression (Bain et al., 1994 [PubMed 8001125]).

TCF3 Antibody (C-term) - References

Hirose, K., et al. Blood 116(6):962-970(2010)
Pan, F., et al. Immunogenetics 62(4):237-251(2010)
Hauser, J., et al. Mol. Immunol. 47(5):1031-1038(2010)
Rittie, L., et al. Aging Cell 8(6):738-751(2009)
Pedraza, N., et al. J. Biol. Chem. 284(47):32980-32988(2009)

TCF3 Antibody (C-term) - Citations

- ID3 may protect mice from anti-GBM glomerulonephritis by regulating the differentiation of Th17 and Treg cells.