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TCF3 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP13991b

Specification

TCF3 Antibody (C-term) Blocking peptide - Product Information

Primary Accession P15923

TCF3 Antibody (C-term) Blocking peptide - 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
The synthetic peptide sequence used to generate the antibody AP13991b was selected from the C-term region of TCF3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TCF3 Antibody (C-term) Blocking peptide - Protein Information

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).

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Cellular Location
Nucleus.

TCF3 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

TCF3 Antibody (C-term) Blocking peptide - Images

TCF3 Antibody (C-term) Blocking peptide - Background

The TCF3 gene, also called E2A, encodes 2 basichelix-loop-helix (bHLH) transcription factors, E12 and E47, throughalternative splicing. E12 and E47 are involved in regulation ofimmunoglobulin gene expression (Bain et al., 1994 [PubMed8001125]).

TCF3 Antibody (C-term) Blocking peptide - 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)