

TCF7 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1951a**Specification**

TCF7 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P36402](#)
Other Accession [Q86WR9](#)

TCF7 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 6932

Other Names

Transcription factor 7, TCF-7, T-cell-specific transcription factor 1, T-cell factor 1, TCF-1, TCF7, TCF1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1951a](/product/products/AP1951a) was selected from the N-term region of human TCF7. 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.

TCF7 Antibody (N-term) Blocking Peptide - Protein Information

Name TCF7 ([HGNC:11639](#))

Synonyms TCF1

Function

Transcriptional activator involved in T-cell lymphocyte differentiation. Necessary for the survival of CD4(+) CD8(+) immature thymocytes. Isoforms lacking the N-terminal CTNNB1 binding domain cannot fulfill this role. Binds to the T-lymphocyte-specific enhancer element (5'-WWCAAAG-3') found in the promoter of the CD3E gene. Represses expression of the T-cell receptor gamma gene in alpha-beta T- cell lineages (By similarity). Required for the development of natural killer receptor-positive lymphoid tissue inducer T-cells (By similarity). TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by TCF7 and CTNNB1. May also act as feedback transcriptional repressor of CTNNB1 and TCF7L2 target genes.

Cellular Location

Nucleus.

Tissue Location

Predominantly expressed in T-cells. Also detected in proliferating intestinal epithelial cells and in the basal epithelial cells of mammary gland epithelium

TCF7 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TCF7 Antibody (N-term) Blocking Peptide - Images**TCF7 Antibody (N-term) Blocking Peptide - Background**

The T cell specific transcription factor TCF7 activates genes involved in immune regulation and thymocyte differentiation, and is a candidate locus for genetic susceptibility to type 1 diabetes.

TCF7 Antibody (N-term) Blocking Peptide - References

Smit, L., et al., J. Biol. Chem. 279(17):17232-17240 (2004).Ioannidis, V., et al., J. Immunol. 171(2):769-775 (2003).Noble, J.A., et al., Diabetes 52(6):1579-1582 (2003).Batlle, E., et al., Cell 111(2):251-263 (2002).van de Wetering, M., et al., J. Biol. Chem. 267(12):8530-8536 (1992).