

**TBX3 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14976c****Specification**

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**TBX3 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O15119](#)**TBX3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 6926**Other Names**

T-box transcription factor TBX3, T-box protein 3, TBX3

**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.

**TBX3 Antibody (Center) Blocking Peptide - Protein Information****Name** TBX3**Function**

Transcriptional repressor involved in developmental processes (PubMed:<a href="http://www.uniprot.org/citations/10468588" target="\_blank">10468588</a>). Binds to the palindromic T site 5'- TTCACACCTAGGTGTGAA-3' DNA sequence, or a half-site, which are present in the regulatory region of several genes (PubMed:<a href="http://www.uniprot.org/citations/12000749" target="\_blank">12000749</a>). Probably plays a role in limb pattern formation (PubMed:<a href="http://www.uniprot.org/citations/10468588" target="\_blank">10468588</a>). Required for mammary placode induction, and maintenance of the mammary buds during development (By similarity). Involved in branching morphogenesis in both developing lungs and adult mammary glands, via negative modulation of target genes; acting redundantly with TBX2 (By similarity). Required, together with TBX2, to maintain cell proliferation in the embryonic lung mesenchyme; perhaps acting downstream of SHH, BMP and TGFbeta signaling (By similarity). Involved in modulating early inner ear development, acting independently of, and also redundantly with, TBX2 in different subregions of the developing ear (By similarity). Acts as a negative regulator of PML function in cellular senescence (PubMed:<a href="http://www.uniprot.org/citations/22002537" target="\_blank">22002537</a>).

**Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00201}.

**Tissue Location**

Widely expressed.

**TBX3 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**TBX3 Antibody (Center) Blocking Peptide - Images****TBX3 Antibody (Center) Blocking Peptide - Background**

This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This protein is a transcriptional repressor and is thought to play a role in the anterior/posterior axis of the tetrapod forelimb. Mutations in this gene cause ulnar-mammary syndrome, affecting limb, apocrine gland, tooth, hair, and genital development. Alternative splicing of this gene results in three transcript variants encoding different isoforms; however, the full length nature of one variant has not been determined.

**TBX3 Antibody (Center) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Hong, K.W., et al. J. Hum. Genet. 55(6):336-341(2010) Christoffels, V.M., et al. Circ. Res. 106(2):240-254(2010) Pfeufer, A., et al. Nat. Genet. 42(2):153-159(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)