

TBX5 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14687a**Specification**

TBX5 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q99593](#)**TBX5 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 6910**Other Names**

T-box transcription factor TBX5, T-box protein 5, TBX5

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.

TBX5 Antibody (N-term) Blocking Peptide - Protein Information**Name** TBX5**Function**

DNA-binding protein that regulates the transcription of several genes and is involved in heart development and limb pattern formation (PubMed:25725155, PubMed:25963046, PubMed:29174768, PubMed:26917986, PubMed:27035640, PubMed:8988164). Binds to the core DNA motif of NPPA promoter (PubMed:26926761).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00201, ECO:0000269|PubMed:29174768}.
Cytoplasm Note=Shuttles between the cytoplasm and the nucleus. Acetylation at Lys-339 promotes nuclear retention.

TBX5 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TBX5 Antibody (N-term) Blocking Peptide - Images

TBX5 Antibody (N-term) 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 gene is closely linked to related family member T-box 3 (ulnar mammary syndrome) on human chromosome 12. The encoded protein may play a role in heart development and specification of limb identity. Mutations in this gene have been associated with Holt-Oram syndrome, a developmental disorder affecting the heart and upper limbs. Several transcript variants encoding different isoforms have been described for this gene.

TBX5 Antibody (N-term) Blocking Peptide - References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Stirnimann, C.U., et al. J. Mol. Biol. 400(1):71-81(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Hong, K.W., et al. J. Hum. Genet. 55(6):336-341(2010)