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TBX5 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14687a

Specification

TBX5 Antibody (N-term) Blocking Peptide - Product Information

Primary 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.

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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 conservedfamily of genes that share a common DNA-binding domain, the T-box.T-box genes encode transcription factors involved in the regulationof developmental processes. This gene is closely linked to relatedfamily member T-box 3 (ulnar mammary syndrome) on human chromosome12. The encoded protein may play a role in heart development andspecification of limb identity. Mutations in this gene have beenassociated with Holt-Oram syndrome, a developmental disorderaffecting the heart and upper limbs. Several transcript variantsencoding 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)