

**TCF15 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18248c****Specification**

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**TCF15 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q12870](#)**TCF15 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 6939**Other Names**

Transcription factor 15, TCF-15, Class A basic helix-loop-helix protein 40, bHLHa40, Paraxis, Protein bHLH-EC2, TCF15, BHLHA40, BHLHEC2

**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.

**TCF15 Antibody (Center) Blocking Peptide - Protein Information****Name** TCF15 ([HGNC:11627](#))**Function**

Early transcription factor that plays a key role in somitogenesis, paraxial mesoderm development and regulation of stem cell pluripotency. Essential for the mesenchymal to epithelial transition associated with somite formation. Required for somite morphogenesis, thereby regulating patterning of the axial skeleton and skeletal muscles. Required for proper localization of somite epithelium markers during the mesenchymal to epithelial transition. Also plays a key role in regulation of stem cell pluripotency. Promotes pluripotency exit of embryonic stem cells (ESCs) by priming ESCs for differentiation. Acts as a key regulator of self-renewal of hematopoietic stem cells (HSCs) by mediating HSCs quiescence and long- term self-renewal. Together with MEOX2, regulates transcription in heart endothelial cells to regulate fatty acid transport across heart endothelial cells. Acts by forming a heterodimer with another helix- loop-helix (bHLH) protein, such as TCF3/E12, that binds DNA on E-box motifs (5'-CANNTG-3') and activates transcription of target genes.

**Cellular Location**

Nucleus {ECO:0000250|UniProtKB:Q60756, ECO:0000255|PROSITE-ProRule:PRU00981}

## **TCF15 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **TCF15 Antibody (Center) Blocking Peptide - Images**

## **TCF15 Antibody (Center) Blocking Peptide - Background**

The protein encoded by this gene is found in the nucleus and may be involved in the early transcriptional regulation of patterning of the mesoderm. The encoded basic helix-loop-helix protein requires dimerization with another basic helix-loop-helix protein for efficient DNA binding.

## **TCF15 Antibody (Center) Blocking Peptide - References**

Guo, P., et al. J. Biol. Chem. 284(27):18184-18193(2009) Deloukas, P., et al. Nature 414(6866):865-871(2001) Hidai, H., et al. Genomics 30(3):598-601(1995) Quertermous, E.E., et al. Proc. Natl. Acad. Sci. U.S.A. 91(15):7066-7070(1994)