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TCF15 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18248c

Specification

TCF15 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q12870
Other Accession	Q60756, P79782, NP_004600.2
Reactivity	**Human**
Predicted	**Chicken, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**20816**
Antigen Region	**81-107**

TCF15 Antibody (Center) - 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

Target/Specificity
This TCF15 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-107 amino acids from the Central region of human TCF15.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TCF15 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TCF15 Antibody (Center) - 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.

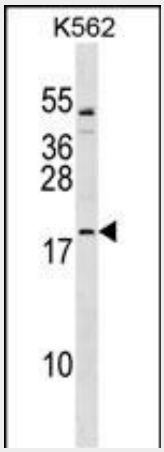
Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q60756, ECO:0000255|PROSITE-ProRule:PRU00981}

TCF15 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TCF15 Antibody (Center) - Images



TCF15 Antibody (Center) (Cat. #AP18248c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the TCF15 antibody detected the TCF15 protein (arrow).

TCF15 Antibody (Center) - 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) - 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)