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# TCF21 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11577b

## Product Information

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|---|---|
| **Application** | FC, WB, E |
| **Primary Accession** | O43680 |
| **Other Accession** | Q5E9S3, NP_003197.2, NP_938206.1 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Calculated MW** | 19715 |
| **Antigen Region** | 144-173 |

## Additional Information

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| **Gene ID** | 6943 |
| **Other Names** | Transcription factor 21, TCF-21, Capsulin, Class A basic helix-loop-helix protein 23, bHLHa23, Epicardin, Podocyte-expressed 1, Pod-1, TCF21, BHLHA23, POD1 |
| **Target/Specificity** | This TCF21 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 144-173 amino acids from the C-terminal region of human TCF21. |
| **Dilution** | FC~~1:10~50 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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **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** | TCF21 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | TCF21 |
| **Synonyms** | BHLHA23, POD1 |
| **Function** | Involved in epithelial-mesenchymal interactions in kidney and lung |

morphogenesis that include epithelial differentiation and branching morphogenesis. May play a role in the specification or differentiation of one or more subsets of epicardial cell types.

**Cellular Location** Nucleus.

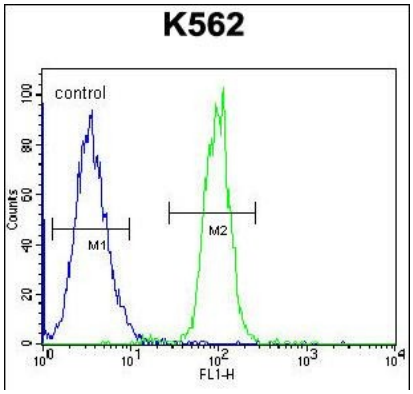
## Background

TCF21 encodes a transcription factor of the basic helix-loop-helix family. The TCF21 product is mesoderm specific, and expressed in embryonic epicardium, mesenchyme-derived tissues of lung, gut, gonad, and both mesenchymal and glomerular epithelial cells in the kidney. Two transcript variants encoding the same protein have been found for this gene.

## References

Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :
Vieira, A.R., et al. Genet. Med. 10(9):668-674(2008)
Melzer, D., et al. PLoS Genet. 4 (5), E1000072 (2008) :
Smith, L.T., et al. Proc. Natl. Acad. Sci. U.S.A. 103(4):982-987(2006)
Colland, F., et al. Genome Res. 14(7):1324-1332(2004)

## Images




TCF21 Antibody (C-term) (Cat. #AP11577b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Citations

- Down-regulation of TCF21 by hypermethylation induces cell proliferation, migration and invasion in colorectal cancer.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.