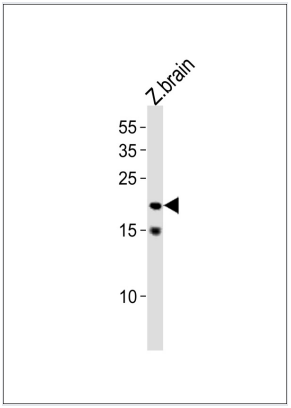
DANRE Tcf21 (TCF21) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DANRE tcf21, Polyclonal Antibody
Full Product Name	DANRE tcf21 Antibody (N-term)
Product Gene Name	anti-TCF21 antibody
Product Synonym Names	Transcription factor 21 {ECO:0000312|EMBL:AAI079691}; TCF-21; Capsulin {ECO:0000312|EMBL:ABU954061}; Epicardin; MyoRa2; TCF21
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Zebrafish
Form/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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This DANRE tcf21 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 5-35 amino acids from the N-terminal region of DANRE tcf21.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	19346
Immunogen Sequence Positions	5-35
3D Structure	ModBase 3D Structure for Q32PV5
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	Zebrafish
Cellular Location	Nucleus {ECO:0000250|UniProtKB:O43680, ECO:0000255|PROSITE-ProRule:PRU00981}

Tissue Location	Expressed in the cranial paraxial mesoderm from 20 hpf and subsequently becomes restricted to the pharyngeal mesoderm that will form the muscle. Expression in the proepicardial organ is first seen at 40hpf in a cluster of cells between the myocardium and yolk Also expressed in the developing arches. Expression begins to surround the heart by day 3 of development, and by 96 hpf, expression is restricted to the outer epicardial layer surrounding the myocardium EMBL; EF632300; ABU95406.1; -; mRNA EMBL; BC107968; AAI07969.1; -; mRNA RefSeq; NP_001032770.1; NM_001037681.1 SMR; Q32PV5; - STRING; 7955.ENSDARP00000053538; - PaxDb; Q32PV5; - GeneID; 558148; - KEGG; dre:558148; - CTD; 6943; - ZFIN; ZDB-GENE-051113-88; tcf21 eggNOG; KOG4029; Eukaryota eggNOG; ENOG411227D; LUCA InParanoid; Q32PV5; - OrthoDB; 1374128at2759; - PhylomeDB; Q32PV5; - PRO; PR:Q32PV5; - Proteomes; UP000000437; Unplaced GO; GO:0005634; C:nucleus; IDA:UniProtKB GO; GO:0001228; F:DNA-binding transcription activator activity, RNA polymerase II-specific; ISS:UniProtKB GO; GO:0000981; F:DNA-binding transcription factor activity, RNA polymerase II-specific; IBA:GO_Central GO; GO:0001227; F:DNA-binding transcription repressor activity, RNA polymerase II-specific; ISS:UniProtKB GO; GO:0070888; F:E-box binding; ISS:UniProtKB GO; GO:0046983; F:protein dimerization activity; ISS:UniProtKB GO; GO:0000977; F:RNA polymerase II regulatory region sequence-specific DNA binding; IBA:GO_Central GO; GO:0060840; P:artery development; IGI:ZFIN GO; GO:0001658; P:branching involved in ureteric bud morphogenesis; ISS:UniProtKB GO; GO:0014707; P:branchiomeric skeletal muscle development; IMP:ZFIN GO; GO:0060435; P:bronchiole development; ISS:UniProtKB GO; GO:0060539; P:diaphragm development; ISS:UniProtKB GO; GO:0048557; P:embryonic digestive tract morphogenesis; ISS:UniProtKB GO; GO:0030855; P:epithelial cell differentiation; ISS:UniProtKB GO; GO:0048732; P:gland development; ISS:UniProtKB GO; GO:0032835; P:glomerulus development; ISS:UniProtKB GO; GO:0001822; P:kidney development; ISS:UniProtKB GO; GO:0048286; P:lung alveolus development; ISS:UniProtKB GO; GO:0060425; P:lungmorphogenesis; ISS:UniProtKB GO; GO:0060426; P:lung vasculature development; ISS:UniProtKB GO; GO:0072277; P:metanephric glomerular capillary formation; ISS:UniProtKB GO; GO:0072162; P:metanephric mesenchymal
Product Categories/Family for anti-TCF21 antibody	Crown Antibodies; Cardiovascular; Cell Biology
Applications Tested/Suitable for anti-TCF21 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-TCF21 antibody	WB~~1:1000
Related Product Information for anti-TCF21 antibody	Involved in epithelial-mesenchymal interactions in kidney and lung morphogenesis that include epithelial differentiation and branching morphogenesis (By similarity).
Product References and Citations for anti-TCF21 antibody	Wang Y., et al. J. Mol. Evol. 68:629-640(2009). Chang M.-Y., et al. Submitted (MAY-2007) to the EMBL/GenBank/DDBJ databases. Serluca F.C., et al. Dev. Biol. 315:18-27(2008). Knight R.D., et al. J. Exp. Zool. B Mol. Dev. Evol. 310:355-369(2008).
Other Notes	Small volumes of anti-TCF21 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TCF21 purchase	MBS9213778 is an antibody targeting TCF21. Also known as DANRE tcf21 Antibody (N-term). Reactive in Zebrafish. Host: Rabbit.



Western Blot (WB) of anti-TCF21 antibody
DANRE tcf21 Antibody (N-term) western blot analysis in zebra fish brain tissue lysates (35ug/lane).This demonstrates the DANRE tcf21 antibody detected the DANRE tcf21 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TCF21. It may not necessarily be applicable to this product.

NCBI GI #	83415108
NCBI GeneID	558148
NCBI Accession #	NP_001032770.1
UniProt Primary Accession #	Q32PV5
UniProt Related Accession #	Q32PV5
GenBank Nucleotide #	NM_001037681.1
NCBI Official Full Name	transcription factor 21
NCBI Official Synonym Full Names	transcription factor 21
NCBI Official Symbol	tcf21
NCBI Official Synonym Symbols	zgc:123313
UniProt Protein Name	Transcription factor 21
UniProt Synonym Protein Names	Capsulin
Protein Family	Transcription factor
UniProt Gene Name	tcf21
UniProt Synonym Gene Names	TCF-21
UniProt Entry Name	TCF21_DANRE
NCBI Protein Information	transcription factor 21
UniProt Comments for TCF21	Involved in epithelial-mesenchymal interactions in kidney and lung morphogenesis that include epithelial differentiation and branching morphogenesis.
Research Articles on TCF21	**1.** Capsulin has an essential role in zebrafish craniofacial myogenesis.
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