

Rabbit anti-Zebrafish DANRE tcf21 Polyclonal Antibody | anti-TCF21 antibody

DANRE tcf21 Antibody (N-term)

CATALOG # AAA289670	HOST Rabbit	REACTIVITY Zebrafish	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

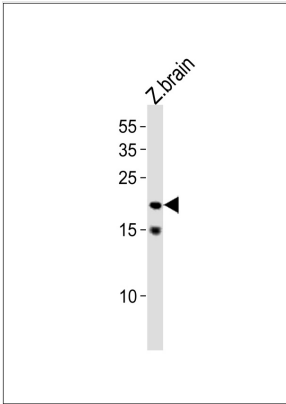
DANRE tcf21; Polyclonal Antibody; DANRE tcf21 Antibody (N-term); Transcription factor 21 {ECO:0000312|EMBL:AAI079691}; TCF-21; Capsulin {ECO:0000312|EMBL:ABU954061}; Epicardin; MyoRa2; TCF21; anti-TCF21 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Zebrafish
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	5-35
Sequence Length	176
Applicable Applications for anti-TCF21 antibody	ELISA, WB (Western Blot)
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.ENSADARP00000053538; - 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:branchiomic 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
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.

IMAGES



WB (Western Blot)
 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 INFORMATION

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 Categories/Family for anti-TCF21 antibody	Crown Antibodies ; Cardiovascular ; Cell Biology
References	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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	83415108
NCBI GeneID	558148
NCBI Accession #	NP_001032770.1
NCBI GenBank Nucleotide #	NM_001037681.1
UniProt Accession #	Q32PV5
Molecular Weight	19346
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
NCBI Protein Information	transcription factor 21
UniProt Protein Name	Transcription factor 21
UniProt Gene Name	tcf21
UniProt Synonym Gene Names	TCF-21
UniProt Entry Name	TCF21_DANRE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/danre-tcf21-antibody-western-blot-elisa/289670>