

(DANRE) aplnra Antibody (C-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21299b

Specification

(DANRE) aplnra Antibody (C-Term) - Product Information

Application	WB,E
Primary Accession	O7SZP9
Reactivity	Zebrafish
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	40649
Antigen Region	343-377

(DANRE) aplnra Antibody (C-Term) - Additional Information

Gene ID 561935

Other Names

Apelin receptor A, Angiotensin II receptor-like 1a, Angiotensin receptor-like 1a, G-protein coupled receptor APJ A, aplnra, agtrl1 {ECO:0000312|EMBL:ABI994701}, agtrl1a

Target/Specificity

This DANRE aplnra antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 343-377 amino acids from the human region of DANRE aplnra.

Dilution

WB~~1:2000

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

(DANRE) aplnra Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

(DANRE) aplnra Antibody (C-Term) - Protein Information

Name aplnra

Synonyms agtrl1 {ECO:0000312|EMBL:ABI99470.1}, ag

Function Receptor for apelin receptor early endogenous ligand (apela) and apelin (apln) hormones coupled to G proteins that inhibit adenylate cyclase activity (PubMed:[17336906](#), PubMed:[24316148](#), PubMed:[24407481](#)). Plays a key role in early development such as gastrulation, blood vessels formation and heart morphogenesis by acting as a receptor for apela hormone, promoting endoderm and mesoderm cell migration and regulating the migration of cells fated to become myocardial progenitors, respectively (PubMed:[17336906](#), PubMed:[24316148](#), PubMed:[24407481](#), PubMed:[26017639](#)). Positively regulates angioblast migration toward the embryonic midline, i.e. the position of the future vessel formation, during vasculogenesis (PubMed:[26017639](#)). May promote sinus venosus (SV)-derived endothelial cells migration into the developing heart to promote coronary blood vessel development (By similarity). Required for cardiovascular development, particularly for intersomitic vein angiogenesis by acting as a receptor for apln hormone (By similarity). Also plays a role in various processes in adults such as regulation of blood vessel formation, blood pressure, heart contractility, and heart failure (By similarity). Acts redundantly with agr1b in heart development (PubMed:[17336906](#)).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P79960}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P79960} Note=Internalized to the cytoplasm after exposure to apelin (apln) After exposure to apelin receptor early endogenous ligand (apela), internalized from the cell surface into an endosomal recycling compartment, from where it is recycled to the cell membrane {ECO:0000250|UniProtKB:P35414, ECO:0000250|UniProtKB:P79960}

Tissue Location

First expressed before epiboly in dorsal precursors. During epiboly, expressed in the enveloping layer, yolk syncytial layer and migrating mesoderm. During segmentation stages, expressed in epithelial structures such as adaxial cells, border cells of the newly formed somites, developing lens, otic vesicles and venous vasculature.

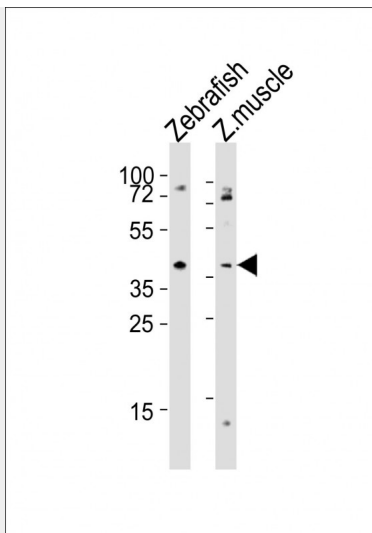
(DANRE) aplnra Antibody (C-Term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

(DANRE) aplnra Antibody (C-Term) - Images





All lanes : Anti-aplnra Antibody (C-Term) at 1:2000 dilution Lane 1: Zebrafish lysates Lane 2: Zebrafish muscle lysates Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

(DANRE) aplnra Antibody (C-Term) - Background

Receptor for apelin coupled to G proteins that inhibit adenylate cyclase activity and plays a role in various processes in adults such as regulation of blood pressure, heart contractility, and heart failure. Also plays a key role in early development such as gastrulation and heart morphogenesis by acting as a receptor for apelin hormone, promoting endoderm and mesoderm cell migration and regulating the migration of cells fated to become myocardial progenitors, respectively (PubMed:24316148, PubMed:24407481). Acts redundantly with agr1b in heart development.

(DANRE) aplnra Antibody (C-Term) - References

Tucker B., et al. Gene Expr. Patterns 7:258-265(2007).
Scott I.C., et al. Dev. Cell 12:403-413(2007).
Chng S.C., et al. Dev. Cell 27:672-680(2013).
Pauli A., et al. Science 343:1248636-1248636(2014).