

Aplnr antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14483**Specification**

Aplnr antibody - C-terminal region - Product Information

Application	WB
Primary Accession	O9WV08
Other Accession	NM_011784 , NP_035914
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Dog
Predicted	Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42kDa KDa

Aplnr antibody - C-terminal region - Additional Information**Gene ID** 23796**Alias Symbol** **APJ, Agtrl1, msr/apj****Other Names**

Apelin receptor, Angiotensin receptor-like 1, G-protein coupled receptor APJ, MSR, Aplnr, Agtrl1, Apj

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Aplnr antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Aplnr antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Aplnr antibody - C-terminal region - Protein Information**Name** Aplnr**Synonyms** Agtrl1, Apj**Function**

Receptor for apelin receptor early endogenous ligand (APELA) and apelin (APLN) hormones coupled to G proteins that inhibit adenylate cyclase activity. Plays a key role in early development such as gastrulation, blood vessels formation and heart morphogenesis by acting as a receptor for APELA hormone (PubMed:28854362, PubMed:28890073, PubMed:28663440)

target="_blank">28663440). May promote angioblast migration toward the embryonic midline, i.e. the position of the future vessel formation, during vasculogenesis (By similarity). Promotes sinus venosus (SV)-derived endothelial cells migration into the developing heart to promote coronary blood vessel development (PubMed:28890073). Also plays a role in various processes in adults such as regulation of blood vessel formation, blood pressure, heart contractility and heart failure (PubMed:28371822).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P35414}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P79960}. Note=After exposure to apelin (APLN) or 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:Q9JHG3}

Tissue Location

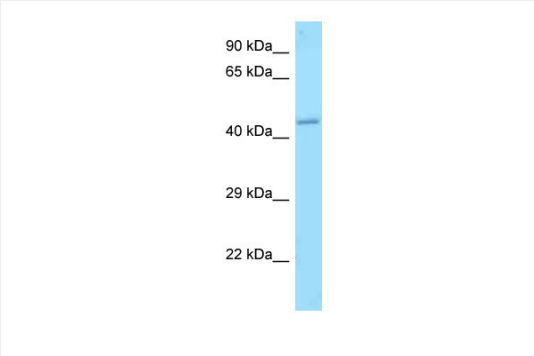
Expressed in coronary endothelial cells (at protein level) (PubMed:28890073). Expressed in the embryo, allantoic and endothelial precursor cells of the yolk sac at 8 days post-coitum (dpc) (PubMed:28663440). Expressed in the secondary heart field and somite at 8.25 dpc (PubMed:28854362). Expressed in fetal allantoic endothelial cells at 9 dpc (PubMed:28663440). Expressed in the allantoic and the invading fetal vasculature of the placenta at 9.5 dpc (PubMed:28854362). Expressed in endothelial cells adjacent to syncytiotrophoblast cells at 10.5 dpc (PubMed:28663440). Expressed weakly in the embryonic heart at 11.5 dpc (PubMed:26611206). Expressed in the adult heart (PubMed:26611206). Expressed in endothelial cells and cardiomyocytes and weakly expressed in fibroblasts (PubMed:10473142, PubMed:26611206).

Aplnr antibody - C-terminal region - 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](#)

Aplnr antibody - C-terminal region - Images



90 kDa
65 kDa
40 kDa
29 kDa
22 kDa

WB Suggested Anti-Aplnr Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Pancreas

Aplnr antibody - C-terminal region - References

Devic E.,et al.Mech. Dev. 84:199-203(1999).
Carninci P.,et al.Science 309:1559-1563(2005).