

APLNR/ Apelin Receptor / APJ Antibody (Extracellular Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10021**Specification**

APLNR/ Apelin Receptor / APJ Antibody (Extracellular Domain) - Product Information

Application	IHC
Primary Accession	P35414
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43kDa KDa

APLNR/ Apelin Receptor / APJ Antibody (Extracellular Domain) - Additional Information**Gene ID** 187**Other Names**

Apelin receptor, Angiotensin receptor-like 1, G-protein coupled receptor APJ, G-protein coupled receptor HG11, APLNR, AGTRL1, APJ

Target/Specificity

Human Apelin Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

APLNR/ Apelin Receptor / APJ Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

APLNR/ Apelin Receptor / APJ Antibody (Extracellular Domain) - 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 (PubMed:11090199, PubMed:25639753, PubMed:28137936). Plays a key role in early development such as gastrulation, blood vessels formation and heart morphogenesis by acting as a receptor for APELA hormone (By similarity). 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 (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 (PubMed:25639753, PubMed:28137936).

Cellular Location

Cell membrane. Note=After exposure to apelin (APLN), internalized from the cell surface into an endosomal recycling compartment, from where it is recycled to the cell membrane (By similarity). 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 (PubMed:25639753) {ECO:0000250|UniProtKB:Q9JHG3, ECO:0000269|PubMed:25639753}

Tissue Location

Expressed in heart, brain, kidney, stomach, spleen, thymus, lung, ovary, small intestine and colon, adipose tissues and pancreas (PubMed:8294032, PubMed:25639753). Expressed in glial cells, astrocytes and neuronal subpopulations (PubMed:8294032). Expressed in embryonic (ESCs) and induced (iPSCs) pluripotent stem cells (PubMed:25639753).

Volume

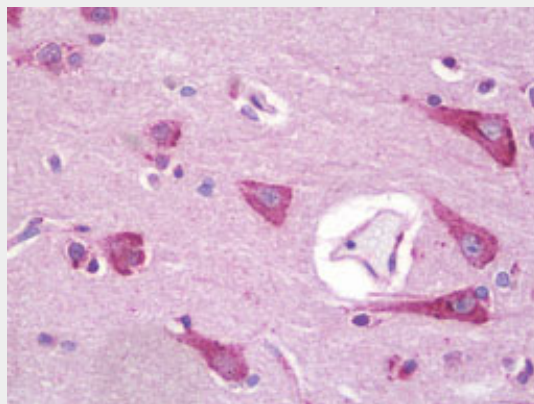
50 µl

APLNR/ Apelin Receptor / APJ Antibody (Extracellular Domain) - Protocols

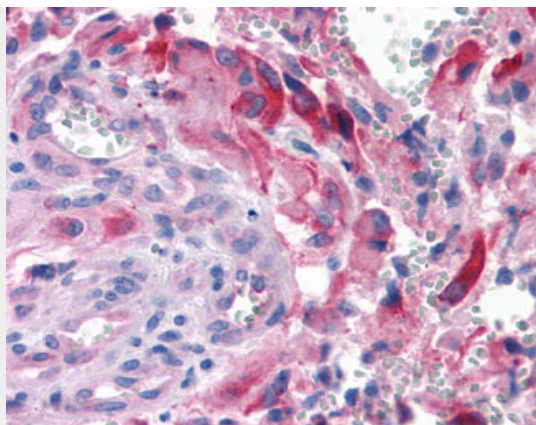
Provided below are standard protocols that you may find useful for product applications.

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

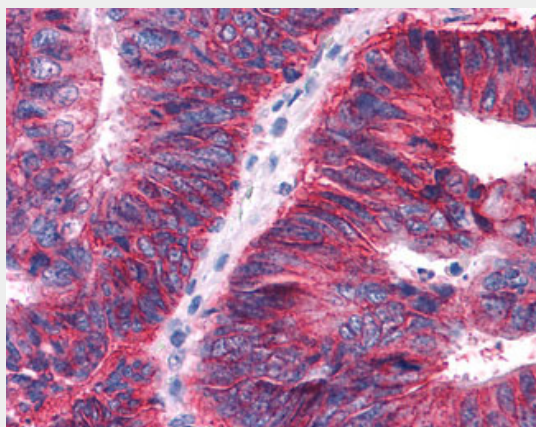
APLNR/ Apelin Receptor / APJ Antibody (Extracellular Domain) - Images



Human Brain, Cortex: Formalin-Fixed, Paraffin-Embedded (FFPE)



Anti-APLNR/ Apelin Receptor / APJ antibody IHC of human Brain, Glioblastoma.



Anti-APLNR/ Apelin Receptor / APJ antibody IHC of human Colon, Carcinoma.

APLNR/ Apelin Receptor / APJ Antibody (Extracellular Domain) - 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 APELA hormone. Alternative coreceptor with CD4 for HIV-1 infection; may be involved in the development of AIDS dementia.

APLNR/ Apelin Receptor / APJ Antibody (Extracellular Domain) - References

O'Dowd B.F., et al. Gene 136:355-360(1993).
Eggerickx D., et al. Submitted (JUN-1995) to the EMBL/GenBank/DDBJ databases.