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APLNR/ Apelin Receptor / APJ Antibody (aa132-181)

Rabbit Polyclonal Antibody
Catalog # ALS16956

Specification

APLNR/ Apelin Receptor / APJ Antibody (aa132-181) - Product Information

Application	**IHC, IF, WB**
Primary Accession	P35414
Other Accession	187
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**42660**

APLNR/ Apelin Receptor / APJ Antibody (aa132-181) - Additional Information

Gene ID 187

Other Names
APLNR, AGTRL1, Angiotensin receptor-like 1, Angiotensin II receptor-like 1, Apelin receptor, APJ, APJ (apelin) receptor, APJR, G protein-coupled receptor APJ, HG11 orphan receptor, HG11, APJ receptor, G-protein coupled receptor APJ

Target/Specificity
AGTRL1 antibody detects endogenous levels of AGTRL1.

Reconstitution & Storage
PBS, pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol. Store at -20°C.

Precautions
APLNR/ Apelin Receptor / APJ Antibody (aa132-181) is for research use only and not for use in diagnostic or therapeutic procedures.

APLNR/ Apelin Receptor / APJ Antibody (aa132-181) - 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).

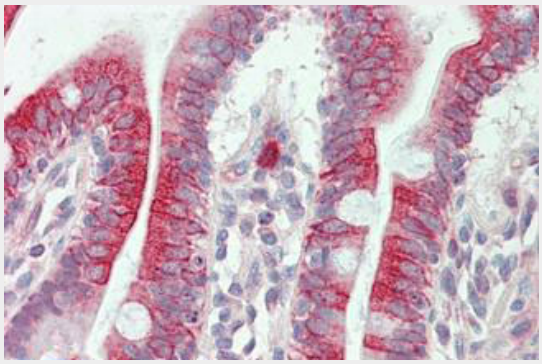
Volume
50 µl

APLNR/ Apelin Receptor / APJ Antibody (aa132-181) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

APLNR/ Apelin Receptor / APJ Antibody (aa132-181) - Images



Anti-APLNR/ Apelin Receptor / APJ antibody IHC staining of human small intestine.

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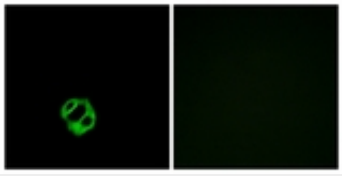
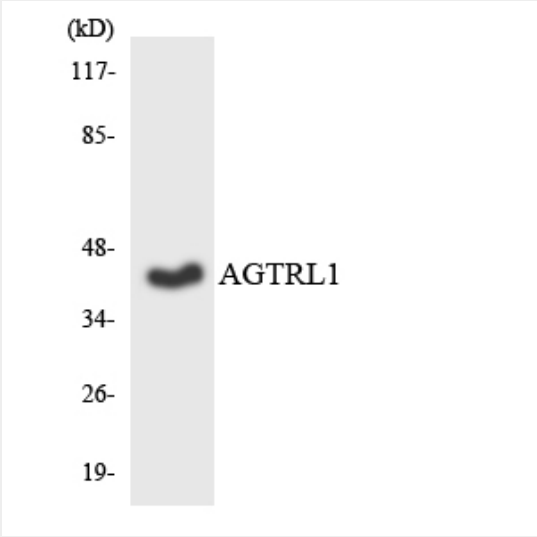


Immunofluorescence analysis of MCF7 cells, using AGTRL1 Antibody.



Western blot of the lysates from HT-29 cells using AGTRL1 antibody.

APLNR/ Apelin Receptor / APJ Antibody (aa132-181) - 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 (aa132-181) - 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.