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**Product Name: APLNR Rabbit Polyclonal Antibody****Catalog #: APRab07012**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	43kDa

**Antigen Information**

<b>Gene Name</b>	APLNR
<b>Alternative Names</b>	APLNR; AGTRL1; APJ; Apelin receptor; Angiotensin receptor-like 1; G-protein coupled receptor APJ; G-protein coupled receptor HG11
<b>Gene ID</b>	187.0
<b>SwissProt ID</b>	P35414
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human AGTRL1. AA range:141-190

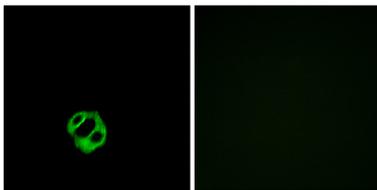
**Background**

This gene encodes a member of the G protein-coupled receptor gene family. The encoded protein is related to the angiotensin receptor, but is actually an apelin receptor that inhibits adenylate cyclase activity and plays a counter-regulatory role against the pressure action of angiotensin II by exerting hypertensive effect. It functions in the cardiovascular and central nervous systems, in glucose metabolism, in embryonic and tumor angiogenesis and as a human immunodeficiency virus (HIV-1) coreceptor. Two transcript variants resulting from alternative splicing have been identified. [provided by RefSeq, Jul 2009],function:Receptor for apelin coupled to G proteins that inhibit adenylate cyclase activity. Alternative coreceptor with CD4 for HIV-1 infection; may be involved in the development of AIDS dementia.,similarity:Belongs to the G-protein coupled receptor 1 family.,tissue specificity:Widely expressed in the brain, in glial cells, astrocytes and neuronal subpopulations, as well as in the spleen, thymus, ovary, small intestine and colon.,

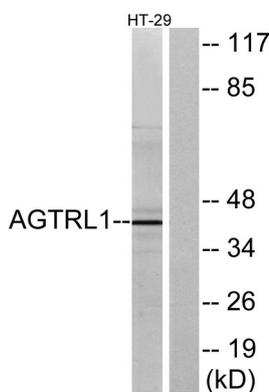
## Research Area

Neuroactive ligand-receptor interaction;

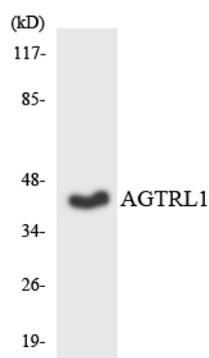
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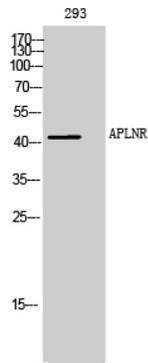
Immunofluorescence analysis of MCF7 cells, using AGTRL1 Antibody. The picture on the right is blocked with the synthesized peptide.



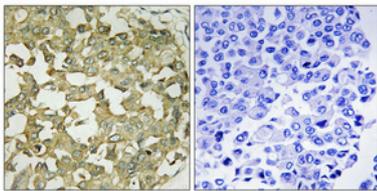
Western blot analysis of lysates from HT-29 cells, using AGTRL1 Antibody. The lane on the right is blocked with the synthesized peptide.



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



Western Blot analysis of 293 cells using APLNR Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°, overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.