

For Research Use Only

Apelin Polyclonal antibody

Catalog Number: 11497-1-AP **10 Publications**



Basic Information

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|---|--|--|
| Catalog Number: 11497-1-AP | GenBank Accession Number: BC021104 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 300 ug/ml by Nanodrop; | GeneID (NCBI): 8862 | Recommended Dilutions: IHC 1:50-1:500 IF/ICC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: Q9ULZ1 | |
| Isotype: IgG | Full Name: apelin | |
| Immunogen Catalog Number: AG2047 | Calculated MW: 77 aa, 9 kDa | |

Applications

Tested Applications:
IHC, IF/ICC, ELISA

Cited Applications:
IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human colon cancer tissue, mouse heart tissue, mouse brain tissue, rat heart tissue

IF/ICC : HepG2 cells,

Background Information

Apelin, isolated from bovine stomach tissue extracts, is recognized as the endogenous ligand of the angiotensin-like-receptor 1 (APJ), and the human orphan G-protein-coupled receptor. Apelin is widely expressed in various organs such as the heart, lung, kidney, liver, adipose tissue, gastrointestinal tract, brain, adrenal glands, endothelium, and human plasma. Apelin has been found to be a potent stimulator of cardiac contractility and may function in the regulation of the cardiovascular system. Apelin is also known to be involved in the maintenance of INS sensitivity and play an important role in liver disease.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|--|-------------|
| Song Ah Chae | 36189989 | Am J Physiol Regul Integr Comp Physiol | |
| Jun Seok Son | 35081489 | EBioMedicine | |
| Zhi-Yong Xiao | 29432881 | Neuroscience | |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

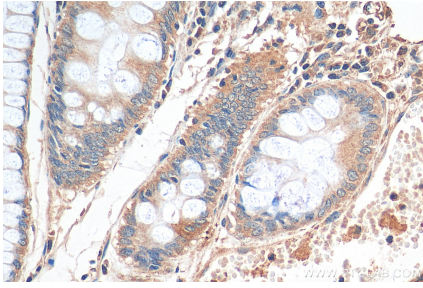
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

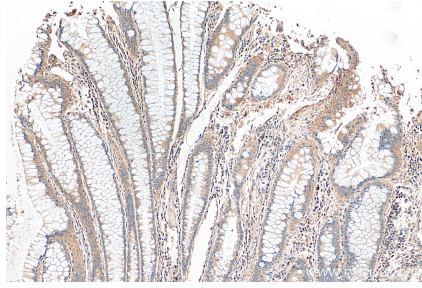
E: proteintech@ptglab.com
W: ptglab.com

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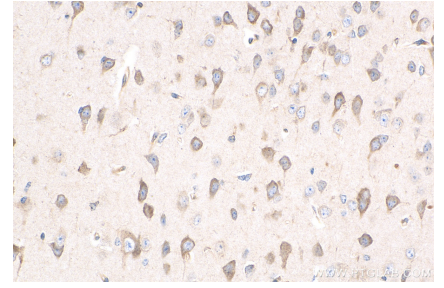
Selected Validation Data



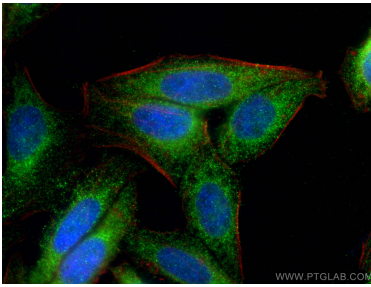
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11497-1-AP (Apelin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11497-1-AP (Apelin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11497-1-AP (Apelin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Apelin antibody (11497-1-AP) at dilution of 1:200 and CoralLite@488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).