For Research Use Only

Adrenomedullin Polyclonal antibody

Catalog Number:10778-1-AP 4 Publications

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Basic Information

Catalog Number:
10778-1-AP

Size:
150ul , Concentration: 600 ug/ml by Nanodrop and 353 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1197

GenBank Accession Number:
BC015961

GeneID (NCBI):
133

UNIPROT ID:
P35318

Full Name:
adrenomedullin

Calculated MW:
20 kDa

Observed MW:
6 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:300-1:500
IHC 1:50-1:500
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human

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:

WB : human kidney tissue, fetal human brain tissue, Raji cells, A549 cells, human placenta tissue

IHC : human placenta tissue, human pancreas cancer tissue, human kidney tissue, mouse kidney tissue

IF/ICC : A549 cells,

Background Information

Adrenomedullin (AM) and proadrenomedullin N-terminal 20 peptide (PAMP) are two small active hormones derived from the expression of a single gene (Adm) that is expressed throughout the GI tract, including the mucosal epithelium, glandular duct cells, neuroendocrine cells, and smooth muscle cells of the GI tract, between the oral cavity and the rectum (PMID:10782362, PMID:27345325). These two peptides coexist in GI cells, where they regulate many physiological functions including vasodilation, angiogenesis, anti-inflammation, organ protection, and tissue repair. AM suppresses inflammatory cytokine production in the intestinal mucosa, improves vascular and lymphatic function, mucosal epithelial repair, and intestinal barrier function in animal models with intestinal inflammation (PMID:27965594, PMID:29311984). Molecular mass species of 18, 14, and 6 kDa were identified in tumor cell lysates and presumably represent AM precursor, processed intermediates, and the authentic peptide, respectively. There is also a 22-kDa immunoreactive species in two cancer cell lines, H720 and MCF-7 (PMID: 8798536).

Notable Publications

Author	Pubmed ID	Journal	Application
Zhenwei Song	35805068	Cells	IF
Giulia Antoniali	35876890	Cell Mol Life Sci	IHC
Takeshi Sasaki	36479717	Prostate	WB

Storage

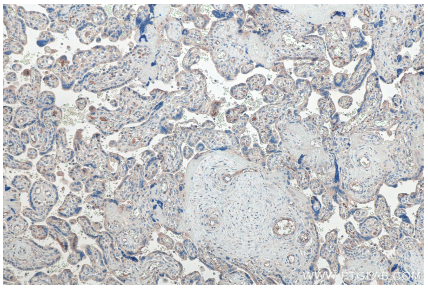
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

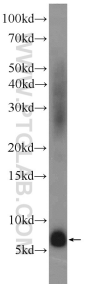
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

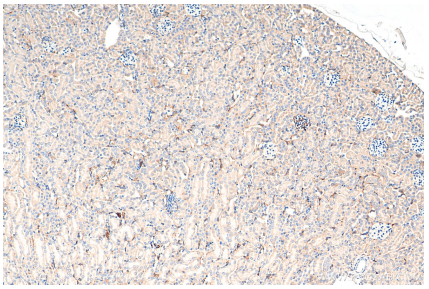
Selected Validation Data



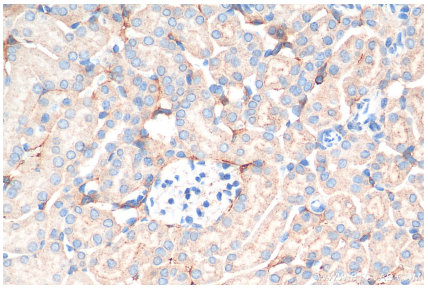
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10778-1-AP (Adrenomedullin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



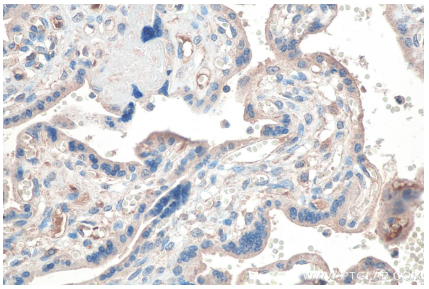
human kidney tissue were subjected to SDS PAGE followed by western blot with 10778-1-AP (Adrenomedullin antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



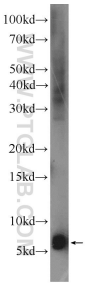
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10778-1-AP (Adrenomedullin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



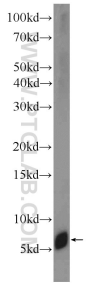
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10778-1-AP (Adrenomedullin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



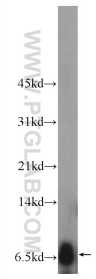
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10778-1-AP (Adrenomedullin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



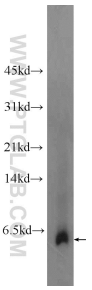
A549 cells were subjected to SDS PAGE followed by western blot with 10778-1-AP (Adrenomedullin antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



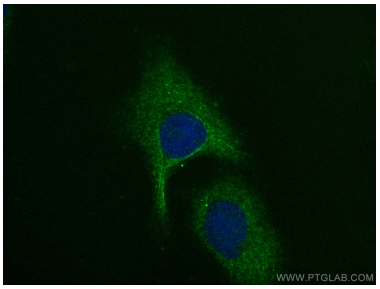
Raji cells were subjected to SDS PAGE followed by western blot with 10778-1-AP (Adrenomedullin antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.

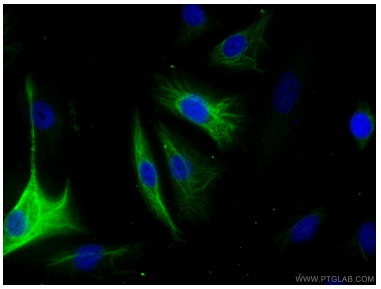


human placenta tissue were subjected to SDS PAGE followed by western blot with 10778-1-AP (Adrenomedullin antibody at dilution of 1:300 incubated at room temperature for 1.5 hours.



fetal human brain tissue were subjected to SDS PAGE followed by western blot with 10778-1-AP (Adrenomedullin antibody at dilution of 1:300 incubated at room temperature for 1.5 hours.





Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using Adrenomedullin antibody (10778-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).

Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using 10778-1-AP (Adrenomedullin antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).