

Basic Information

Product Name	Anti-APLN Antibody
Gene Name	APLN
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Apelin, identical to the related rat and mouse sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	9 kDa
Dilution Ratios	Western blot (WB):1:500-2000

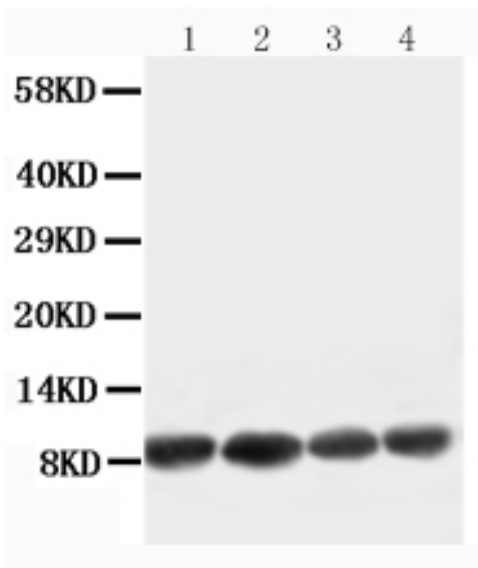
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Apelin is a neuropeptide expressed in the supraoptic and paraventricular nuclei that acts on specific receptors located on vasopressinergic neurons. The apelin gene to Xq25-q26.3 based on sequence similarity between the apelin sequence and a chromosome X PAC clone. This gene encodes a peptide that functions as an endogenous ligand for the G protein coupled receptor APJ. The encoded protein is synthesized as a prepropeptide that is processed into biologically active C-terminal fragments. The peptide fragments activate different tissue specific signaling pathways that regulate diverse biological functions including fluid homeostasis, cardiovascular function and insulin secretion. This protein also functions as a coreceptor for the human immunodeficiency virus 1.

Selected Validation Data



Western blot analysis of APLN using anti-APLN antibody (BA3388-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: U87 whole cell lysates,

Lane 2: MCF-7 whole cell lysates,

Lane 3: HELA whole cell lysates,

Lane 4: MM453 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-APLN antigen affinity purified polyclonal antibody (BA3388-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for APLN at approximately 9 kDa. The expected band size for APLN is at 9 kDa.