

Datasheet for ABIN7600858
anti-Apelin antibody (AA 24-77)



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Overview

Quantity:	100 µg
Target:	Apelin (APLN)
Binding Specificity:	AA 24-77
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Apelin antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Apelin/APLN Antibody
Immunogen:	E.coli-derived human Apelin/APLN recombinant protein (Position: S24-F77).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Apelin/APLN Antibody Picoband® (ABIN7600858). Tested in ELISA, IHC applications. This antibody reacts with Human.
Purification:	Immunogen affinity purified.

Target Details

Target:	Apelin (APLN)
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Target Details

Alternative Name: APLN ([APLN Products](#))

Background: Synonyms: Deleted in azoospermia-like, DAZ homolog, DAZ-like autosomal, Deleted in azoospermia-like 1, SPGY-like-autosomal, DAZL, DAZH, DAZL1, DAZLA, SPGYLA

Background: 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.

Molecular Weight: 41 kDa

Gene ID: 8862

Pathways: [Positive Regulation of Peptide Hormone Secretion](#), [Hormone Activity](#), [Feeding Behaviour](#)

Application Details

Application Notes: Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, -

1. Cayabyab, M., Hinuma, S., Farzan, M., Choe, H., Fukusumi, S., Kitada, C., Nishizawa, N., Hosoya, M., Nishimura, O., Messele, T., Pollakis, G., Goudsmit, J., Fujino, M., Sodroski, J. Apelin, the natural ligand of the orphan seven-transmembrane receptor APJ, inhibits human immunodeficiency virus type 1 entry. *J. Virol.* 74: 11972-11976, 2000. 2. Chen, M. M., Ashley, E. A., Deng, D. X. F., Tsalenko, A., Deng, A., Tabibiazar, R., Ben-Dor, A., Fenster, B., Yang, E., King, J. Y., Fowler, M., Robbins, R., Johnson, F. L., Bruhn, L., McDonagh, T., Dargie, H., Yakhini, Z., Tsao, P. S., Quertermous, T. Novel role for the potent endogenous inotrope apelin in human cardiac dysfunction. *Circulation* 108: 1432-1439, 2003. 3. De Mota, N., Reaux-Le Goazigo, A., El Messari, S., Chartrel, N., Roesch, D., Dujardin, C., Kordon, C., Vaudry, H., Moos, F., Llorens-Cortes, C. Apelin, a potent diuretic neuropeptide counteracting vasopressin actions through inhibition of vasopressin neuron activity and vasopressin release. *Proc. Nat. Acad. Sci.* 101: 10464-10469, 2004.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.