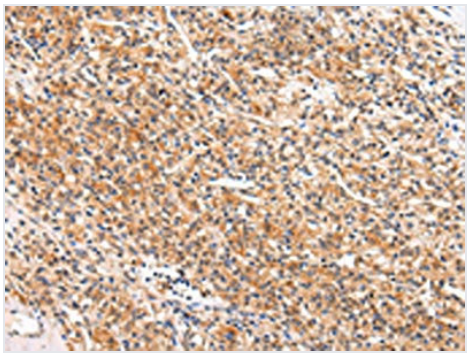
APLN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APLN, Polyclonal Antibody
Full Product Name	APLN Antibody
Product Gene Name	anti-APLN antibody
Product Synonym Names	apelin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	8,569 Da
Chromosome Location	Chromosome: X; NC_000023.10 (128779236..128788933, complement). Location: Xq25
OMIM	300297
3D Structure	ModBase 3D Structure for Q9ULZ1
Immunogen	Synthetic peptide of human APLN
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-APLN antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-APLN antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-APLN antibody	ELISA: 1:2000-1:5000 IHC: 1:25-1:100
Related Product Information for anti-APLN antibody	MBS7130252 is an antibody targeting APLN. Also known as APLN Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-APLN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC)-Paraffin of anti-APLN antibody
The image on the left is immunohistochemistry of paraffin-embedded Human prostate cancer tissue using MBS7130252(APLN Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APLN. It may not necessarily be applicable to this product.

NCBI GI #	45120090
NCBI GeneID	8862
NCBI Accession #	NP_059109.3
UniProt Primary Accession #	Q9ULZ1
UniProt Secondary Accession #	Q4VY08; Q8WU89
UniProt Related Accession #	Q9ULZ1
GenBank Nucleotide #	NM_017413.4
NCBI Official Full Name	apelin preproprotein
NCBI Official Synonym Full Names	apelin
NCBI Official Symbol	APLN
NCBI Official Synonym Symbols	APEL; XNPEP2
UniProt Protein Name	Apelin
UniProt Synonym Protein Names	APJ endogenous ligand
Protein Family	Apelin
UniProt Gene Name	APLN
UniProt Synonym Gene Names	APEL
UniProt Entry Name	APEL_HUMAN
NCBI Protein Information	apelin; AGTRL1 ligand; APJ endogenous ligand
NCBI Summary for APLN	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.[provided by RefSeq, Feb 2010]

UniProt Comments for APLN	apelin: Endogenous ligand for APJ, an alternative coreceptor with CD4 for HIV-1 infection. Inhibits HIV-1 entry in cells coexpressing CD4 and APJ. Apelin-36 has a greater inhibitory activity on HIV infection than other synthetic apelin derivatives. The oral intake in the colostrum and the milk could have a role in the modulation of the immune responses in neonates. May also have a role in the central control of body fluid homeostasis by influencing AVP release and drinking behavior. Belongs to the apelin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: Xq25 Cellular Component: extracellular space; extracellular region Molecular Function: G-protein-coupled receptor binding; hormone activity; apelin receptor binding; receptor binding Biological Process: lactation; immune response; signal transduction
Research Articles on APLN	**1.** The apelin/APJ system may be involved in the development of retinal neovascularization of ROP. The present results showed that the effect of apelin was related to HIF-1a but independent with VEGF.
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