Apelin Receptor Blocking Peptide

PRODUCT OVERVIEW

Product Name	Apelin Receptor, Blocking Peptide
Full Product Name	Apelin Receptor Blocking Peptide
Product Gene Name	APEL blocking peptide
Product Synonym Names	AGTRL1 ligand antibody; APEL antibody; Apelin-13 antibody; APJ endogenous ligand antibody; Apln antibody; XNPEP2 antibody
Preparation and Storage	Store at -20 degree C for long term storage.
Molecular Weight	42,660 Da
Molecular Function	Developmental protein; G-protein coupled receptor; Receptor; Transducer
Subcellular Location	Cell Membrane; Multi-pass membrane protein
Applications Tested/Suitable for APEL blocking peptide	Immunodepletion, Immunocompetition
Related Product Information for APEL blocking peptide	Overview: Receptor for apelin coupled to G proteins that inhibit adenylate cyclase activity and plays a role in various processes in adults such as regulation of blood pressure, heart contractility, and heart failure. Also plays a key role in early development such as gastrulation and heart morphogenesis by acting as a receptor for APELA hormone. Alternative coreceptor with CD4 for HIV-1 infection; may be involved in the development of AIDS dementia. Peptide Description: Synthetic peptide taken within amino acid region 150-200 human Apelin receptor protein. Structure: Transmembrane, Transmembrane helix Expression: Widely expressed in the brain, in glial cells, astrocytes and neuronal subpopulations, as well as in the spleen, thymus, ovary, small intestine and colon.
Other Notes	Small volumes of APEL blocking peptide 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.
Searchable Terms for APEL purchase	MBS5400580 is a blocking peptide targeting APEL. Also known as Apelin Receptor Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	4885057
NCBI GeneID	187
NCBI Accession #	NP_005152
UniProt Primary Accession #	P35414
UniProt Related Accession #	P35414
GenBank Nucleotide #	NM_005161.4
NCBI Official Full Name	apelin receptor
NCBI Official Synonym Full Names	apelin receptor
NCBI Official Symbol	APLNR

NCBI Official Synonym Symbols	APJ; APJR; HG11; AGTRL1
UniProt Protein Name	Apelin receptor
UniProt Synonym Protein Names	Angiotensin receptor-like 1; G-protein coupled receptor APJ; G-protein coupled receptor HG11
Protein Family	Apelin receptor
UniProt Gene Name	APLNR
UniProt Synonym Gene Names	AGTRL1; APJ
NCBI Protein Information	apelin receptor
NCBI Summary for APEL	This gene encodes a member of the G protein-coupled receptor gene family. The encoded protein is related to the angiotensin receptor, but is actually an apelin receptor that inhibits adenylate cyclase activity and plays a counter-regulatory role against the pressure action of angiotensin II by exerting hypertensive effect. It functions in the cardiovascular and central nervous systems, in glucose metabolism, in embryonic and tumor angiogenesis and as a human immunodeficiency virus (HIV-1) coreceptor. Two transcript variants resulting from alternative splicing have been identified. [provided by RefSeq, Jul 2009]
UniProt Comments for APEL	Receptor for apelin receptor early endogenous ligand (APELA) and apelin (APLN) hormones coupled to G proteins that inhibit adenylate cyclase activity (PubMed:11090199, PubMed:25639753, PubMed:28137936). Plays a key role in early development such as gastrulation, blood vessels formation and heart morphogenesis by acting as a receptor for APELA hormone (). May promote angioblast migration toward the embryonic midline, i.e. the position of the future vessel formation, during vasculogenesis (). Promotes sinus venosus (SV)-derived endothelial cells migration into the developing heart to promote coronary blood vessel development (). Plays also a role in various processes in adults such as regulation of blood vessel formation, blood pressure, heart contractility and heart failure (PubMed:25639753, PubMed:28137936).
Research Articles on APEL	**1.** The high APJ expression has significantly higher rates of tumor invasion, local lymph node, and distant metastasis (all $p < 0.001$).
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