PLG Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PLG, Blocking Peptide
Full Product Name	PLG Antibody (C-term) Blocking Peptide
Product Gene Name	PLG blocking peptide
Product Synonym Names	Plasminogen; Plasmin heavy chain A; Activation peptide; Angiostatin; Plasmin heavy chain A; short form; Plasmin light chain B; PLG
Clone Number	80917060
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human PLG. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PLG peptide (MBS9226779) is used for blocking the activity of PLG antibody (MBS9211631)
Molecular Weight	90,569 Da
OMIM	173350
Cellular Location	Secreted. Note: Locates to the cell surface where it is proteolytically cleaved to produce the active plasmin Interaction with HRG tethers it to the cell surface
Tissue Location	Present in plasma and many other extracellular fluids. It is synthesized in the liver
Function	Plasmin dissolves the fibrin of blood clots and acts as a proteolytic factor in a variety of other processes including embryonic development, tissue remodeling, tumor invasion, and inflammation. In ovulation, weakens the walls of the Graafian follicle. It activates the urokinase-type plasminogen activator, collagenases and several complement zymogens, such as C1 and C5. Cleavage of fibronectin and laminin leads to cell detachment and apoptosis. Also cleaves fibrin, thrombospondin and von Willebrand factor. Its role in tissue remodeling and tumor invasion may be modulated by CSPG4. Binds to cells.
Related Product Information for PLG blocking peptide	PLG is a circulating zymogen that is converted to the active enzyme plasmin by cleavage of the peptide bond between arg560 and val561, which is mediated by urokinase and tissue plasminogen activator. The main function of this protein is to dissolve fibrin clots. The protein, like trypsin, belongs to the family of serine proteinases.
Other Notes	Small volumes of PLG 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 PLG purchase	MBS9226779 is a blocking peptide targeting PLG. Also known as PLG Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	130316
NCBI GeneID	5340
NCBI Accession #	P00747.2
UniProt Primary Accession #	P00747

UniProt Secondary Accession #	Q15146; Q5TEH4; Q6PA00
UniProt Related Accession #	P00747
NCBI Official Full Name	Plasminogen
NCBI Official Synonym Full Names	plasminogen
NCBI Official Symbol	PLG
UniProt Protein Name	Plasminogen
Protein Family	Plasminogen
UniProt Gene Name	PLG
UniProt Entry Name	PLMN_HUMAN
NCBI Protein Information	plasminogen
NCBI Summary for PLG	The protein encoded by this gene is a secreted blood zymogen that is activated by proteolysis and converted to plasmin and angiostatin. Plasmin dissolves fibrin in blood clots and is an important protease in many other cellular processes while angiostatin inhibits angiogenesis. Defects in this gene are likely a cause of thrombophilia and ligneous conjunctivitis. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Dec 2009]
UniProt Comments for PLG	Plasmin dissolves the fibrin of blood clots and acts as a proteolytic factor in a variety of other processes including embryonic development, tissue remodeling, tumor invasion, and inflammation. In ovulation, weakens the walls of the Graafian follicle. It activates the urokinase-type plasminogen activator, collagenases and several complement zymogens, such as C1 and C5. Cleavage of fibronectin and laminin leads to cell detachment and apoptosis. Also cleaves fibrin, thrombospondin and von Willebrand factor. Its role in tissue remodeling and tumor invasion may be modulated by CSPG4. Binds to cells.
Research Articles on PLG	**1.** reduced proteolytic activity of plasmin on structures of growing thrombi, rather than on complement activation fragments, explains the association of plasminogen deficiency with aHUS.
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