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Anti-Angiostatin K1-3 Antibody

Catalog # ABO12712

Product Information

Application	WB, IHC-P, E
Primary Accession	P00747
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Plasminogen(PLG) detection. Tested with WB, IHC-P, ELISA in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5340
Other Names	Plasminogen, 3.4.21.7, Plasmin heavy chain A, Activation peptide, Angiostatin, Plasmin heavy chain A, short form, Plasmin light chain B, PLG
Calculated MW	90569
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat ELISA , 0.1-0.5 □g/ml, Human, - Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Secreted . 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 Specificity	Present in plasma and many other extracellular fluids. It is synthesized in the liver.
Source	Eukaryota
Protein Name	Plasminogen
Contents	Each vial contains 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify Carrier Free" or "No BSA" in your order note. "
Immunogen	E. coli-derived human Angiostatin K1-3 recombinant protein(Position: C103-C352).

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the peptidase S1 family. Plasminogen subfamily.

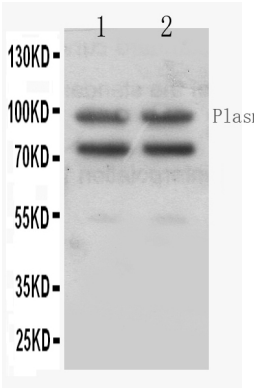
Protein Information

Name	PLG (HGNC:9071)
Function	[Plasmin]: Protease which primary function is to degrade fibrin, the main component of blood clots (PubMed:6094526, PubMed:6919539). Also cleaves other components of blood clots like thrombospondin-1/THBS1 and von Willebrand factor (VWF) (PubMed:24449821, PubMed:7679575). Can also directly and/or through the activation of other proteases degrade the various components of the extracellular matrix including collagen, fibronectin and laminin (PubMed:14699093, PubMed:28849762, PubMed:9171346). Thereby, regulates a variety of biological processes including embryonic development, tissue remodeling, and inflammation (PubMed:9171346). In ovulation, weakens the walls of the Graafian follicle (By similarity). In vitro, it is also able to cleave several complement zymogens, such as C1, C4 and C5 (PubMed:6447255).
Cellular Location	[Plasmin]: Secreted. Note=Locates to the cell surface where it is proteolytically cleaved to produce the active plasmin (PubMed:14699093). Interaction with HRG tethers it to the cell surface (PubMed:15613921, PubMed:19712047, PubMed:9102401)
Tissue Location	Present in plasma and many other extracellular fluids. It is synthesized in the liver

Background

Ang K1-3 is a single, non-glycosylated polypeptide chain containing 259 amino acids. It represents a proteolytic fragment of plasminogen containing the first three kringle structures. Ang K1-3 reduces endothelial cell proliferation and acts as a potent inhibitor of angiogenesis and tumor growth. It displays increased inhibitory activity(ED50=70nM) relative to kringles 1-4(ED50 = 135nM).

Images



Western blot analysis of Angiostatin K1-3 expression in SMMC7721 whole cell lysates (lane 1) and HEPG2 whole cell lysates (lane 2). Angiostatin K1-3 at 95KD was detected using rabbit anti- Angiostatin K1-3 Antigen Affinity purified polyclonal antibody (Catalog # ABO12712) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.