

Human Angiostatin Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF226

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Angiostatin in direct ELISAs and Western blots. This antibody will also recognize human plasminogen.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human Angiostatin Kringle 1-3 Val98-Ser358 with Cys188Ser & Cys316Ser substitutions Accession # P00747	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS			
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
	Recommended Concentration	Sample	
Western Blot	0.1 μg/mL	Recombinant Human Angiostatin Kringle 1-3	
PREPARATION AND S	STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.		
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.		

BACKGROUND

Angiostatin is a 38-45 kDa proteolytic fragment of plasminogen, a 92-100 kDa glycosylated blood zymogen that serves as the precursor for plasmin. Mature human plasminogen is 713 amino acids (aa) in length (aa 98-810). It contains five N-terminal kringle domains (aa 103-561) plus one peptidase S1 domain (aa 581-808). Upon cleavage by tPA between Arg580 and Val581, plasminogen is converted into the disulfide-linked two-subunit enzyme plasmin that dissolves fibrin clots. Plasminogen is also cleaved by MMPs which generate multiple fragments. Angiostatin has documented antiangiogenic and antitumor activity, likely mediated by a downregulation of Bcl2, and an upregulation of thrombospondin-1. Over aa 98-358, human angiostatin shares 81% aa identity with mouse angiostatin.

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