

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	<i>E. coli</i> -derived recombinant human Angiostatin Kringle 1-3 Val98-Ser358 with Cys188Ser & Cys316Ser substitutions Accession # P00747
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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