

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Angiostatin in direct ELISAs and Western blots. This antibody will also recognize human plasminogen.                                                                                                                                                          |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Angiostatin Kringle 1-3<br>Val98-Ser358 with Cys188Ser & Cys316Ser substitutions<br>Accession # P00747                                                                                                                            |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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.

#### PRODUCT SPECIFIC NOTICES

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