

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                |
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| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                          |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human PLG, human Plasmin, and the catalytic domain in direct ELISAs and Western blots. |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>1</sub> Clone # 270409                                               |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                     |
| <b>Immunogen</b>                                                                                                                                                                                        | Human plasma-derived Plasminogen<br>Glu20-Asn810                                               |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Neutralization</b>      | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | 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

Plasminogen (PLG) is the precursor of plasmin, an active serine protease that dissolves the fibrin of blood clots and acts in many other processes such as embryonic development, tissue remodeling, inflammation, and tumor invasion (1, 2). Synthesized in the kidney, PLG is found in plasma and many extracellular fluids. Activated by u- or t-plasminogen activator, the single-chain PLG (amino acid residues 20-810) is converted to plasmin, which consists of disulfide bond-linked heavy chain A (residues 20-580) and light chain B (residues 581-810). Heavy chain A contains 5 kringle domains and light chain B corresponds to the serine protease domain. A fragment consisting of the first 4 kringle domains has been named as angiostatin, a novel angiogenesis inhibitor (3, 4).

## PRODUCT SPECIFIC NOTICES

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