

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Plasminogen and Plasmin in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 270412
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human plasma-derived Plasminogen
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.
Immunoprecipitation	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

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, Plasminogen is found in plasma and many extracellular fluids. Activated by u- or t-Plasminogen Activator, the single-chain Plasminogen (aa 20-810) is converted to Plasmin, which consists of disulfide bond-linked heavy chain A (aa 20-580) and light chain B (aa 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 Angiostatin, an angiogenesis inhibitor (3, 4).

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