

Datasheet for 200-101-208-0100**Plasminogen Antibody****Overview**

Description:	Anti-Plasminogen (Human Plasma) (GOAT) Antibody - 200-101-208-0100
Item No.:	200-101-208-0100
Size:	100 µg
Applications:	WB, ELISA
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Plasmin dissolves the fibrin of blood clots and acts as a proteolytic factor in a variety of other processes including embryonic development, tissue remodeling, tumor invasion, and inflammation. In ovulation, it weakens the walls of the Graafian follicle. It activates the urokinase-type plasminogen activator, collagenases, and several complement zymogens, such as C1 and C5. The cleavage of fibronectin and laminin leads to cell detachment and apoptosis. Also, it cleaves fibrin, thrombospondin, and von Willebrand factor. Its has roles in tissue remodeling and tumor invasion which may be modulated by CSPG4 and binds to cells. Angiostatin is an angiogenesis inhibitor that blocks neovascularization and growth of experimental primary and metastatic tumors in vivo. Plasmin is inactivated by alpha-2-antiplasmin immediately after dissociation from the clot.
Synonyms:	goat anti-Plasminogen Antibody, Angiostatin antibody, Microplasmin antibody, Plasmin antibody, Plasmin heavy chain A antibody, Plasmin light chain B antibody, PLG antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PLG
Reactivity:	Human
Immunogen Type:	Native Protein

Immunogen:	Plasminogen [Human Plasma]
Purity/Specificity:	Anti-Plasminogen is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Plasminogen [Human Plasma]. Cross reactivity against Plasminogen from other sources is unknown.
Relevant Links:	• UniProtKB - P00747 • NCBI - P00747.2 • GenelD - 5340

Application Details

Tested Applications:	WB
Suggested Applications:	ELISA (Based on references)
Application Note:	Anti-Plasminogen Antibody has been tested by western blot. This product is suitable to be assayed against 1.0 ug of Plasminogen [Human Plasma] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) code #605-4302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:16,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
WB:	1:2,000 - 1:10,000

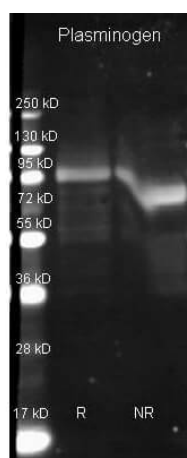
Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

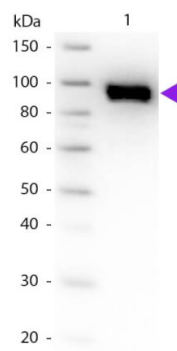


Western Blot

Rockland Goat anti Plasminogen antibody (200-101-208 lot 6571) was used to detect Plasminogen under reducing (R) and non-reducing (NR) conditions. Reduced samples of purified target proteins contained 4% BME and were boiled for 5 minutes. Samples of ~1ug of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with 1:3000 dilution of primary antibody (ON 4 C in MB-070). Detection shown was using Dylight 649 conjugated Donkey anti goat (605-743-125 lot 20834 1:10K in TBS/MB-070) 1 hr RT. Images were collected using the BioRad VersaDoc System.

Western Blot

Western blot of Goat Anti-Plasminogen primary antibody. Lane 1: Plasminogen. Lane 2: None. Load: 50 ng per lane. Primary antibody: Plasminogen primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase goat secondary antibody at 1:40,000 for 60 min at RT. Blocking: MB-070 for 30 min at RT. Predicted/Observed size: 91 kDa, 91 kDa for Plasminogen. Other band(s): None.



References

- Shams et al. Fructose-1,6-bisphosphate aldolase of *Neisseria meningitidis* binds human plasminogen via its C-terminal lysine residue. *Microbiology* (2016)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.