

Monoclonal antibodies against human Plasminogen

Product Nos. ADG3643, ADG3646, ADG3652, ADG3653 and ADG3659

Description

Full length Plasminogen comprises seven domains, a C-terminal chymotrypsin-like serine protease domain, a N-terminal Pan Apple domain (PAp) and five Kringle domains (KR 1-5).

Plasminogen is synthesized in the liver and circulates in two forms: Glu-Plasminogen and Lys-Plasminogen. In its native form Plg contains a glutamic acid residue at the N-terminus and this molecule is termed Glu-Plasminogen.

Native Glu-Plasminogen (88 KDa) is readily converted to Lys-plasminogen (83 KDa) by Plasmin hydrolysis of the Lys76-Lys77 peptide bond.

Properties

The monoclonal antibodies were generated against purified human Plasminogen. The antibodies have been purified from cell culture supernatant using Protein G affinity chromatography.

Presentation

Screw capped vial containing 0.5 mg of purified antibody in PBS pH 7.4. The IgG concentration is given on the vial label. Spin the vial briefly before opening.

Storage and Stability

Store the antibody at 2°-8°C. For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

ADG3643

This antibody (clone HD-PG1, isotype IgG₁) reacts with Glu- and Lys-plasminogen, with LBSI and LBSII, as determined per Elisa. ⁽¹⁾ The antibody is suitable for Western blot ⁽¹⁾ and Immunohistochemistry on frozen sections. ⁽²⁾

ADG3646

This antibody (clone HD-PG6, isotype IgG₁) reacts with Glu-, Lys-plasminogen and LBSI not with LBSII, as determined per Elisa. The antibody is suitable for Immunohistochemistry on frozen sections. ^(2, 3)

ADG3652

This antibody (clone HD-PG12, isotype IgG₁) reacts with the non-kringle domains of Glu- and Lys plasminogen, as determined per Elisa. ⁽¹⁾ The antibody is suitable for Immunohistochemistry on frozen sections. ^(2, 3)

ADG3653

This antibody (clone HD-PG13, isotype IgG₁) reacts specifically with Glu-plasminogen, as determined per Elisa. ⁽¹⁾ The antibody is suitable for Immunohistochemistry on frozen sections. ^(2, 3)

ADG3659

This antibody (clone HD-PG19, isotype IgG_{2a}) reacts with the non-kringle domains of Glu- and Lys plasminogen, as determined per Elisa. It cross-reacts with bovine Glu-plasminogen. The antibody is anti-catalytic, as determined by radial fibrinolysis assay ⁽¹⁾. The antibody is suitable for Immunoprecipitation. ⁽⁴⁾

References

1. Monoclonal antibodies against plasminogen activators and plasmin(ogen). MD Kramer, U Vettel, M Schmitt, J Reinartz, G Brunner, and A Meissauer. Fibrinolysis 1992;6, Suppl 4:103-111.
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3. Immunohistochemical characterization of the plasminogen activator system in psoriatic epidermis. Gissler HM, Frank R, Kramer MD. Br J Dermatol. 1993 Jun;128(6):612-618.
4. Plasminogen activation in lesional skin of Pemphigus vulgaris type Neumann. Reinartz J, Naher H, Mai H, Kramer MD. Arch Dermatol Res. 1993;284(8):432-439

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Hinweis/Note:

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The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

For research use only!

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Summary

<i>Isotype</i>	<i>Clone designation</i>				
	<i>HD-PG 1</i> <i>IgG₁</i>	<i>HD-PG 6</i> <i>IgG₁</i>	<i>HD-PG 12</i> <i>IgG₁</i>	<i>HD-PG 13</i> <i>IgG₁</i>	<i>HD-PG 19</i> <i>IgG_{2b}</i>
Reactivity in ELISA					
Glu-plasminogen	+	+	+	+	+
Lys-plasminogen	+	+	+	-	+
Lysine binding site I ¹	+	+	-	-	-
Lysine binding site II ²	+	-	-	-	-
HMW-uPA	-	-	-	-	-
tPA	-	-	-	-	-
Reactivity in Immunoblot					
Glu-plasminogen	+	-	-	-	+/-
Anti-Catalytic Property					
Plasmin	-	-	-	-	+
HMW-uPA	-	-	-	-	-
Two chain-tPA	-	-	-	-	-
Immunohistochemistry					
Cryostat section	+	+	+	+	-
Formalin-fixed paraffin-embedded tissue	-	-	-	-	-

1 Kringle domain 1+2+3

2 Kringle domain 4

3 See reference: Gissler et al.⁴⁶