

## Datasheet: 7440-0104P

<b>Description:</b>	SHEEP ANTI HUMAN PLASMINOGEN:HRP
<b>Specificity:</b>	PLASMINOGEN
<b>Format:</b>	HRP
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Cat, Rat, Dog, Bovine, Guinea Pig

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid

#### Antiserum Preparation

Antisera to human plasminogen were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.01% Thiomersal

#### Approx. Protein

IgG concentration 1.0mg/ml

## Concentrations

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**Immunogen** Human plasminogen, purified from plasma.

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## External Database Links

**UniProt:**

[P00747](#)    [Related reagents](#)

**Entrez Gene:**

[5340](#)    PLG    [Related reagents](#)

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**RRID** AB\_877519

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## Specificity

**Sheep anti Human plasminogen antibody** recognizes human plasminogen, a ~90 kDa single-chain glycoprotein and inactive precursor (zymogen) of plasmin, secreted by the liver and present in the blood and majority of extravascular body fluids.

Plasminogen is the central component in the fibrinolytic system, and is converted into active plasmin through cleavage by the endogenous activators urokinase (u-PA) and tissue plasminogen activator (t-PA), in the presence of fibrin. The level of plasminogen is maintained in the plasma at around 200mg/L, with an increase being associated with hypothyroidism, obesity and pregnancy, and deficiencies with many disorders including thrombosis, liver disease, sepsis and hyperthyroidism.

Sheep anti Human plasminogen antibody has not been cross adsorbed and may cross react with plasminogen from other species.

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## References

1. Clinton, S.R. *et al.* (2010) Binding and activation of host plasminogen on the surface of *Francisella tularensis*. [BMC Microbiol. 10:76.](#)
  2. Samson, A.L. *et al.* (2009) A nonfibrin macromolecular cofactor for tPA-mediated plasmin generation following cellular injury. [Blood. 114: 1937-46.](#)
  3. Samson, A.L. *et al.* (2008) Tissue-type plasminogen activator requires a co-receptor to enhance NMDA receptor function. [J Neurochem. 107: 1091-101.](#)
  4. Singh, B. *et al.* (2015) Moraxella catarrhalis Binds Plasminogen To Evade Host Innate Immunity. [Infect Immun. 83 \(9\): 3458-69.](#)
  5. Borg, R.J. *et al.* (2015) Dendritic Cell-Mediated Phagocytosis but Not Immune Activation Is Enhanced by Plasmin. [PLoS One. 10 \(7\): e0131216.](#)
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## Further Reading

1. Fears, R. (1989) Binding of plasminogen activators to fibrin: characterization and pharmacological consequences. [Biochem J. 261 \(2\): 313-24.](#)
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## Storage

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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## Guarantee

18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10094 available at:  
10094: <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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