

## Datasheet: 7440-0104F

<b>Description:</b>	SHEEP ANTI HUMAN PLASMINOGEN:FITC
<b>Specificity:</b>	PLASMINOGEN
<b>Format:</b>	FITC
<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
Immunofluorescence	▪			

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

### 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

0.09% Sodium Azide (NaN<sub>3</sub>)

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Human plasminogen, purified from plasma.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P00747</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5340</a>    PLG    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_877518
<b>Specificity</b>	<p><b>Sheep anti Human plasminogen antibody</b> 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.</p> <p>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.</p> <p>Sheep anti Human plasminogen antibody has not been cross adsorbed and may cross react with plasminogen from other species.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Clinton, S.R. <i>et al.</i> (2010) Binding and activation of host plasminogen on the surface of <i>Francisella tularensis</i>. <a href="#">BMC Microbiol. 10:76.</a></li> <li>Samson, A.L. <i>et al.</i> (2009) A nonfibrin macromolecular cofactor for tPA-mediated plasmin generation following cellular injury. <a href="#">Blood. 114: 1937-46.</a></li> <li>Samson, A.L. <i>et al.</i> (2008) Tissue-type plasminogen activator requires a co-receptor to enhance NMDA receptor function. <a href="#">J Neurochem. 107: 1091-101.</a></li> <li>Singh, B. <i>et al.</i> (2015) Moraxella catarrhalis Binds Plasminogen To Evade Host Innate Immunity. <a href="#">Infect Immun. 83 (9): 3458-69.</a></li> <li>Borg, R.J. <i>et al.</i> (2015) Dendritic Cell-Mediated Phagocytosis but Not Immune Activation Is Enhanced by Plasmin. <a href="#">PLoS One. 10 (7): e0131216.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>Fears, R. (1989) Binding of plasminogen activators to fibrin: characterization and pharmacological consequences. <a href="#">Biochem J. 261 (2): 313-24.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>

**Guarantee** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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