

## Polyclonal Antibody to Vaccinia Virus (Lister Strain) - FITC

<b>Catalog No.:</b>	BP1076F
<b>Quantity:</b>	1 ml
<b>Concentration:</b>	4-5 mg/ml (OD280 nm, E0.1% = 1.4)
<b>Background:</b>	<p><i>Vaccinia virus</i> is an Orthopoxvirus, containing double stranded DNA. Fusion protein plays an important role in the entry of enveloped virus into cells. As <i>Vaccinia virus</i> has a wide host range, it is conceivable that certain cellular components that are ubiquitously expressed on the cell mediate virus infection. The study of the entry process, attachment, fusion and the proteins and receptors involved is complex. During <i>Vaccinia virus</i> infection, the fusion process is attributed to the action of the 14KDa protein (A27L). The N terminus of this protein recognises heparan sulfate on the cell surface. It interacts with the negative charges of sulfates of glycosaminoglycans (GAGs). Therefore, antibodies that recognize this 14KDa protein are able to neutralize <i>Vaccinia virus</i> infection and enable identification other viral and cellular proteins which participate in the <i>Vaccinia virus</i> entry process.</p>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Lister Strain (mixture of virions and infected cell polypeptides).
<b>Format:</b>	<p><b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity Chromatography. <b>Buffer System:</b> 0.01M PBS, pH 7.2 <b>Preservatives:</b> 0.09% Sodium Azide <b>Stabilizers:</b> 10 mg/ml BSA <b>Label:</b> FITC – Covalently coupled with high purity Isomer I of Fluorescein Isothiocyanate Care is taken to ensure complete removal of any free fluorescein from the final product</p>
<b>Applications:</b>	<p><b>ELISA and Immunofluorescence:</b> Direct FA staining of target antigens in a permissive tissue culture system. A starting range of 1/10-1/50 is suggested. Proteinase K digestion is recommended with formalin-fixed paraffin-embedded sections. Acetone fixation of the antigen source is recommended prior to staining. Each laboratory should determine an optimum working titer for use in its particular application. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	<p>Recognizes purified virions. Does <u>not</u> cross-react with Parainfluenza (1-3), RSV, adenovirus, Influenza A &amp; B or HSV-1. Does <u>not</u> react with uninfected cells. Reactive with Lister, Wyeth, New York City and MVA strains of Vaccinia.</p>

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**Storage:**

Store the antibody undiluted at 2-8°C for one month under subdued light or (in aliquots) at -20°C for longer.

Store under subdued light.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General References:** 1. Fedorko, D.P., et al., (2005), "Comparison of methods for detection of Vaccinia Virus in patient specimens", Journal of Clinical Microbiology, 43(9), 4602-4606.

---

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)