

BP1076**Polyclonal Antibody to Vaccinia Virus (Lister Strain) - Purified**

Quantity:	1 ml
Concentration:	4-5 mg/ml (OD280 nm, E0.1% = 1.4)
Background:	Vaccinia virus is an Orthopoxvirus, containing double stranded DNA. Fusion protein plays an important role in the entry of enveloped virus into cells. As vaccinia virus 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 vaccinia virus 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 vaccinia virus infection and enable identification other viral and cellular proteins which participate in the vaccinia virus entry process.
Host:	Rabbit
Immunogen:	Lister Strain (mixture of virions and infected cell polypeptides)
Format:	State: Liquid purified Ig fraction (> 95% pure) Purification: Protein A Chromatography Buffer System: 0.01M PBS, pH 7.2 Preservatives: 0.09% Sodium Azide Stabilizers: None
Applications:	ELISA. Immunohistochemistry (Protein K digestion is recommended with Formalin-Fixed Paraffin Embedded Sections). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes purified virions. Does not cross-react with Parainfluenza (1-3), RSV, Adenovirus, Influenza A & B or HSV-1. Does not react with uninfected cells. Reactive with Lister, Wyeth, New York City and MVA strains of Vaccinia.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Product Citations:	Purchased from Acris: 1. Teoh D, Johnson LA, Hanke T, McMichael AJ, Jackson DG. Blocking development of a CD8+ T cell response by targeting lymphatic recruitment of APC. J Immunol. 2009 Feb 15;182(4):2425-31. doi: 10.4049/jimmunol.0803661. PubMed PMID: 19201897. 2. Miller L, Michel J, Vogt G, Döllinger J, Stern D, Piesker J, et al. Identification and characterization of a phage display-derived peptide for orthopoxvirus detection. Anal Bioanal Chem. 2014 Nov;406(29):7611-21. doi: 10.1007/s00216-014-8150-8. Epub

2014 Oct 14. PubMed PMID: 25311190.

General Readings:

1. Fedorko DP, Preuss JC, Fahle GA, Li L, Fischer SH, Hohman P, et al. Comparison of methods for detection of vaccinia virus in patient specimens. *J Clin Microbiol.* 2005 Sep;43(9):4602-6. PubMed PMID: 16145113.