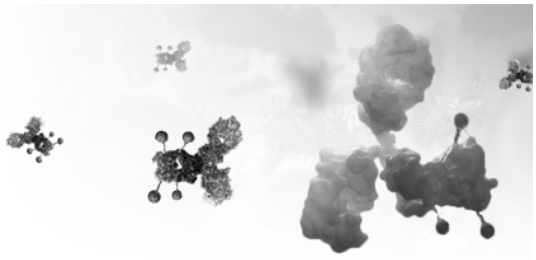

Anti-Vaccinia virus Polyclonal antibody (DPAB0128)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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.
Target	Vaccinia virus
Immunogen	Lister Strain (mixture of virions and infected cell polypeptides)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Vaccinia virus
Purification	95% pure. Protein A chromatography
Conjugate	Unconjugated
Applications	Suitable for use in ELISA and immunohistochemistry. Proteinase K digestion is recommended with formalin-fixed paraffin-embedded sections. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Purified, Liquid
Concentration	4–5mg/ml (OD280nm, E0.1% = 1.4)
Size	1 ml
Buffer	0.01M PBS, pH 7.2; Product contains no stabilizing proteins.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Preservative	0.1% Sodium Azide
Storage	Short-term (up to 6 months) store at 2–8°C. Long term, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

BACKGROUND

Introduction	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.
Keywords	A27L;Orthopoxvirus; Vaccinia Virus; Group I (dsDNA); Unassigned; Poxviridae; Chordopoxvirinae; Orthopoxvirus; VV;VACN;

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