

Polyclonal Antibody to Smallpox B5R (33-47) - Purified

Catalog No.: AP22223PU-N

Quantity: 0.1 mg

Concentration: 0.5 mg/ml

Background: Vaccinia virus, a member of Poxviridae family, is a dsDNA enveloped virus. It consists of 4 types of virion stages among which extracellular enveloped virus (EEV) is critical for cell-to-cell and long range viral infection. B5R is an EEV-specific Type I membrane glycoprotein essential for EEV formation. It consists of a large ectodomain containing regions similar to SCR domains of complement regulatory proteins followed by a transmembrane region and a cytoplasmic tail. B5R is essential for efficient wrapping of IMV, actin tail formation, normal plaque size, virus virulence, incorporation of the protein into EEV and for EEV formation.

Host: Rabbit

Immunogen: Amino acids 33-47 of the B5R protein

AA Sequence:

IQ^EY^NLIRTYKKV^DK

Remarks: The amino acid sequence used as immunogen is 100% homologous in human, 93% in camel and cow, and 80% in monkey and rabbit.

Format: **State:** Liquid Ig fraction

Purification: Protein G chromatography

Buffer System: PBS containing 0.2% gelatin and 0.05% sodium azide

Applications: Western blot: 0.1-1 µg/ml.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody detects Smallpox B5R (33-47).

Species Reactivity: **Tested:** Camel, Cow, New World monkey, Rabbit

Storage: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Massung, R.F., Loparev, V.N., Knight, J.C., Totmenin, A.V., Chizhikov, V.E., Parsons, J.M., Safronov, P.F., Gutorov, V.V., Shchelkunov, S.N. and Esposito, J.J. Terminal region sequence variations in variola virus DNA. *Virology* 221 (2), 291-300 (1996).

Pictures:

Western blot analysis of B5R in (A) recombinant fusion protein containing amino acids 33-47 and (B) fusion partner without these amino acids, using AP22223PU-N at 0.2 µg/ml.

