Yersinia pestis V Antigen Monoclonal Antibodies

ORDERING INFORMATION

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<th>Catalog No.</th>
<th>Clone No.</th>
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<td>18772-200</td>
<td>Va13</td>
<td>IgG1</td>
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<td>18772-1000</td>
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<td>18774-200</td>
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Format: Protein G-purified antibody in PBS, pH 7.4, 0.09% sodium azide.

BACKGROUND

Y. pestis, the causative agent of plague, has low-Ca\(^{2+}\) response (LCR) virulence plasmids that encode a set of secreted virulence proteins including Yersinia outer proteins (YOPS) and the V antigen, LcrV. Some of the YOPS play a role in adherence to eukaryotic cells while others targeted a eukaryotic cell at the site of adherence. The YOPS derange cellular signaling and cytoskeletal functions necessary for host defenses such as phagocytosis. LcrV is a secreted anti-host component with direct immunomodulatory effects. LcrV expression is involved in targeting of YOPS to host cells and is required for cytotoxicity.

SPECIFICATION SUMMARY

Antigen: Recombinant full-length Y. pestis V antigen.
Host Species: Mouse
Specificity: These antibodies recognize Y.pestis V antigen. They do not cross-react with Y. pestis capsular F1 antigen.

APPLICATIONS

Immunoblotting: use at 1-10ug/ml. A band of 37kDa is detected. Endusers should determine optimal concentration for their application.
ELISA: Endusers should determine optimal concentration for their application.
Sandwich ELISA: use #18772 as coating antibody and #18774 as detect antibody. Endusers should determine optimal concentrations for their application.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

These antibodies are stable for at least one (1) year at 4\(^{0}\)C or -20\(^{0}\)C. Store in appropriate aliquots to avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.