

***Yersinia pestis* V Antigen Monoclonal Antibodies**

ORDERING INFORMATION

| Catalog Number | Size |
|----------------|-------|
| 18772-200 | 200ug |
| 18773-200 | 200ug |
| 18774-200 | 200ug |
| 18775-200 | 200ug |
| 18776-200 | 200ug |
| 18772-1000 | 1mg |
| 18773-1000 | 1mg |
| 18774-1000 | 1mg |
| 18775-1000 | 1mg |
| 18776-1000 | 1mg |

Format: These antibodies are purified by Protein G affinity chromatography and are supplied in PBS, pH 7.4, containing 0.1% sodium azide as preservative.

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 are targeted into 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

Antibody Class: All are IgG1.

Preservative: 0.1% NaN₃

SPECIFICITY

These antibodies specifically recognize *Y. pestis* V antigen. They do not cross-react with *Y. pestis* capsular F1 antigen.

APPLICATIONS

Immunoblotting: End-user should determine optimal concentration. We recommend testing a concentration range of 1-10ug/ml. A band of 37 kDa is detected.

ELISA: End-user should determine optimal concentration for their sample.

Sandwich ELISA: use 18772 as coating antibody and 18773 as detect antibody.

DILUTION INSTRUCTIONS

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

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at 4°C or -20°C. Avoid multiple freeze-thaw cycles.

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