Supplementary information

Improved production of monoclonal antibodies against the LcrV antigen of *Yersinia pestis* using FACS-aided hybridoma selection

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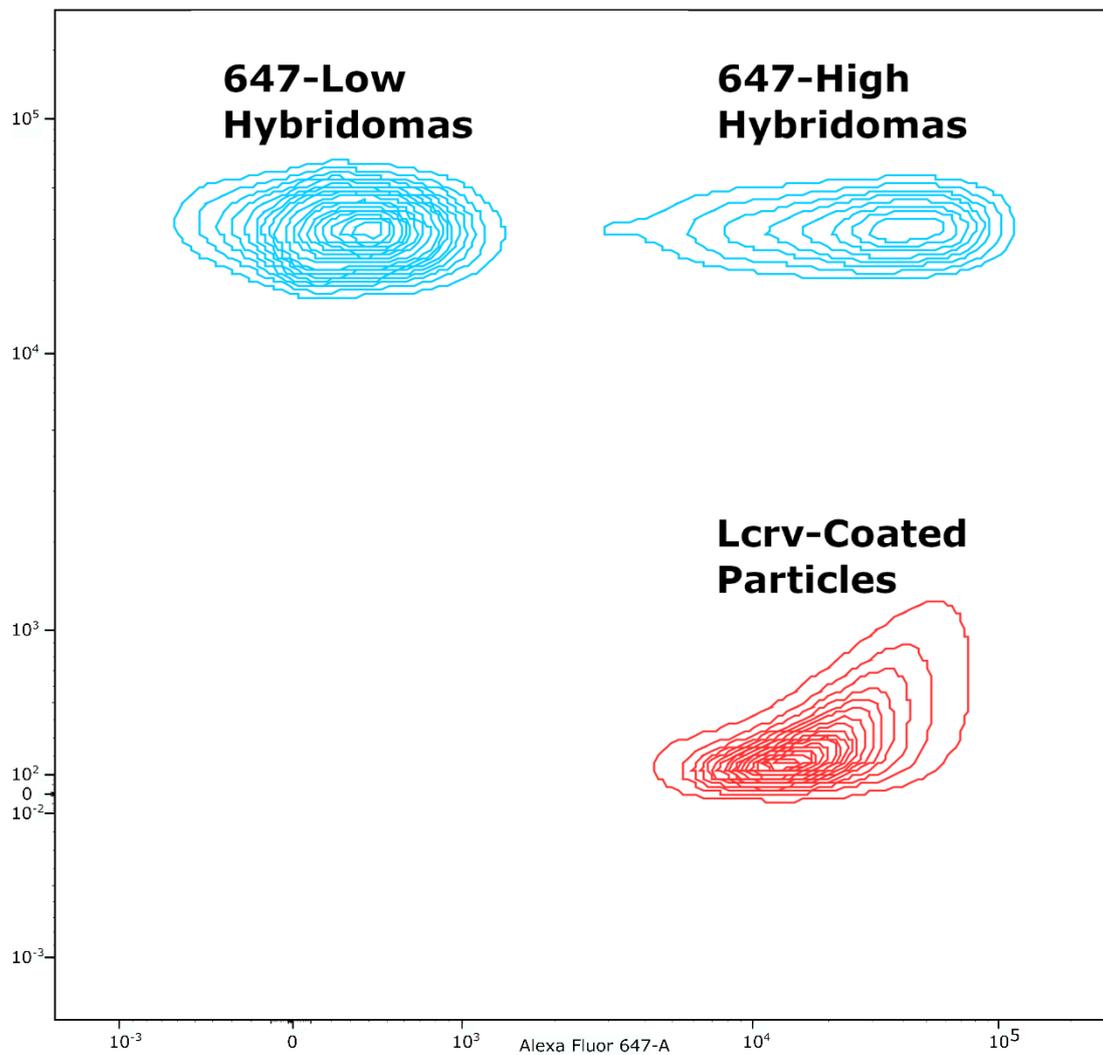
Figure S1. Cytometric analysis for the binding of LcrV coated particles to anti-LcrV hybridomas. Cells from a stable anti-LcrV hybridoma line were incubated with LcrV-coated particles (labeled with Nile blue). Fluorescence measurements show a clear shift in the fluorescence of hybridomas (red), resulting from the binding to the particles (shown in cyan).
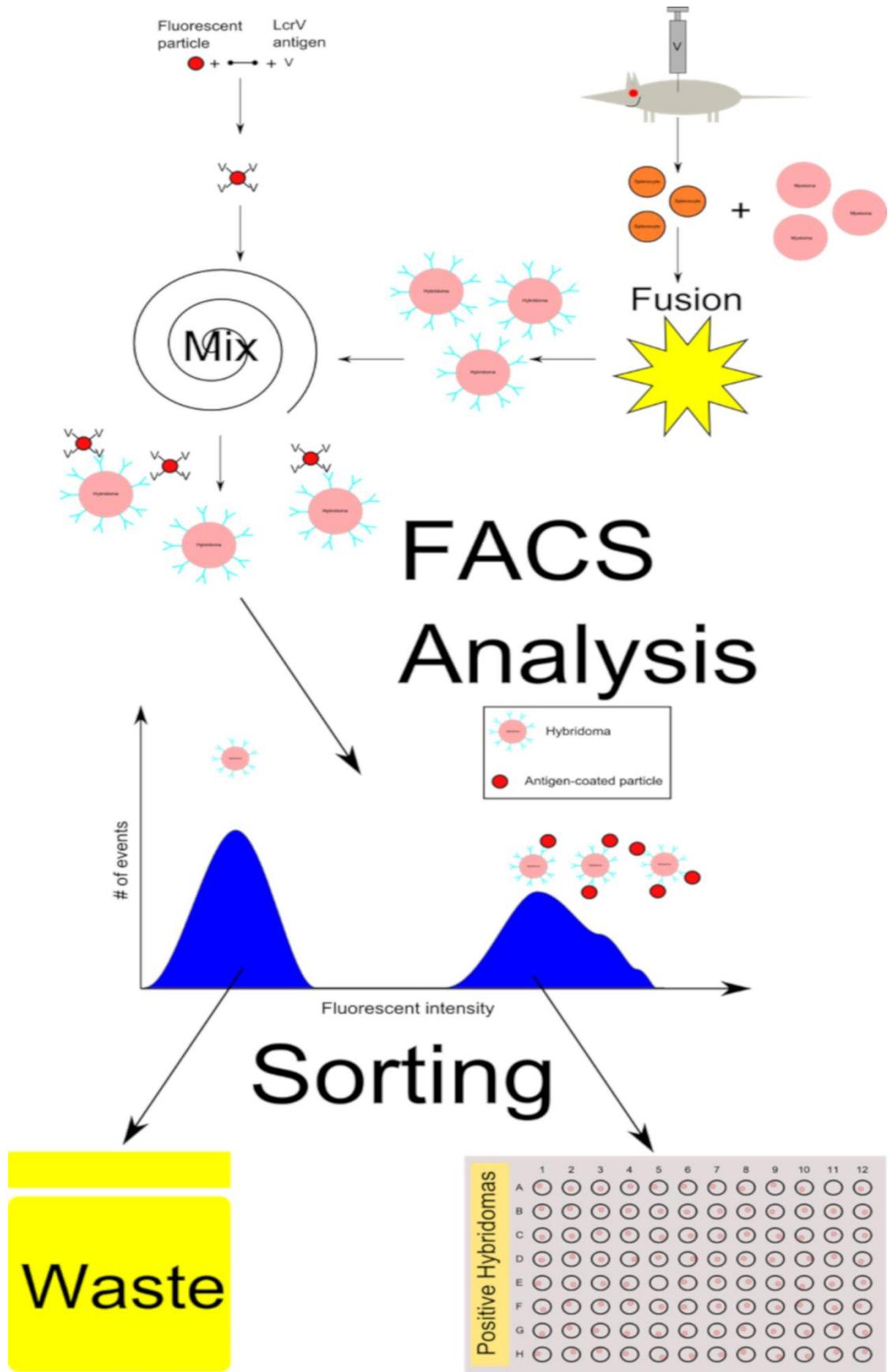
Fluorescent particle

LcrV antigen

+ V

Mix

Fusion

FACS Analysis

Hybridoma

Antigen-coated particle

# of events

Fluorescent intensity

Sorting

Waste

Positive Hybridomas

Figure S2. A schematic description of the hybridoma sorting workflow.

Table S1. A comparison of dissociation constants between antibodies which were produced in the traditional hybridoma method and the sorting method.

Ab	Method	Diss. Const. [nM]
59	Traditional	0.30
122	Traditional	0.90
38	Traditional	2.8
S-7	Sorting	0.23
S-21	Sorting	2.4