

## *S. aureus* LukS-PV (tag free)

Catalog #: 0540-001

### Description:

Recombinant, purified, tag-free *Staphylococcus aureus* Panton-Valentine Leukocidin (PVL) S subunit (LukS-PV). The theoretical molecular weight of the protein is 32,465 Daltons. LukS-PV is purified by column chromatography.

**Formulation & Storage:** Supplied in PBS and 5% glycerol. **Store at** -20°C for 2-3 weeks, -80°C for long term.

### Notes & Usage Guidelines:

**ELISA:** Assay-dependent dilution

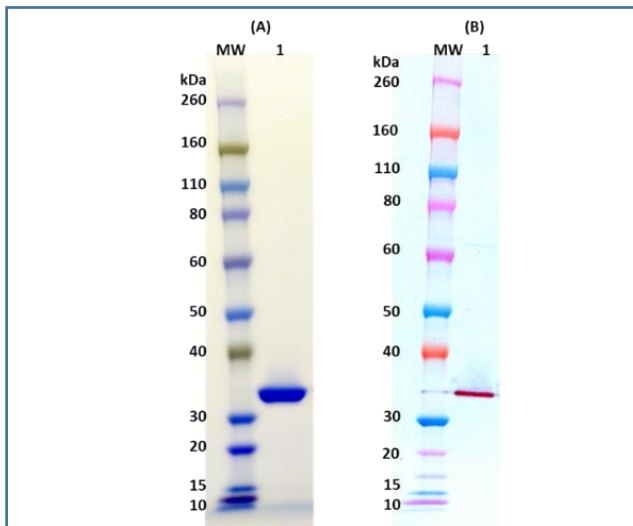
**WB:** Assay-dependent dilution

## Applications

### SDS-PAGE and Western Blot Data:

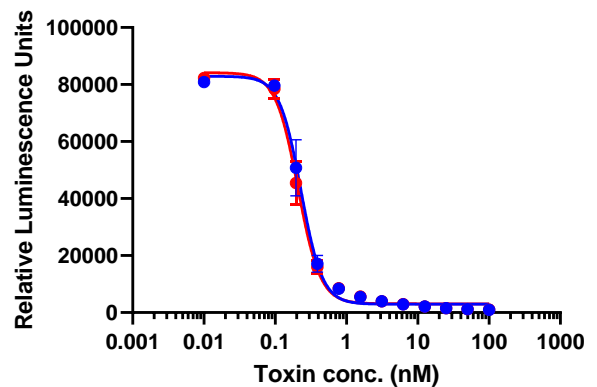
(A) SDS-PAGE of LukS-PV: 5 µg (Lane 1).

(B) Western Blot detection of LukS-PV at 50 ng, using IBT's anti-LukS-PV polyclonal antibody (Catalog #04-0009) at 0.5 µg/mL and anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.



### Toxin Functionality Data:

Human promyelocytic leukemia cell line HL60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of LukS-PV and LukF-PV at equimolar concentration for 3 hours at 37°C with 5% CO<sub>2</sub> and 95% humidity. Cellular viability was determined by CellTiter-Glo® Luminescent Cell Viability Assay. EC<sub>50</sub> values were found to be 0.209 nM for the LukS-PV tag-free lot 2001002 (red circles) and 0.223 nM for the LukS-PV tag-free lot 1805003 (blue circles).



### Certificate of analysis:

A hardcopy of datasheet is sent along with the products. Please refer to it for detailed information. For older lots, refer to the applicable certificate of analysis that may be requested at [services@ibtbioservices.com](mailto:services@ibtbioservices.com)

### Related Products:

IBT provides a wide array of anti-filovirus specific antibodies, recombinant proteins, and other infectious disease reagents. Please see our website, [www.ibtbioservices.com](http://www.ibtbioservices.com) for more details.

**Intended for research use only, not for human, therapeutic, or diagnostic applications.**

*The buyer cannot sell or otherwise transfer this product for Commercial Purposes without written approval of Integrated BioTherapeutics, LLC.*

Copyright 2023. Integrated BioTherapeutics, LLC. All rights reserved.