

# Recombinant *S. aureus* LukS-PV (His-tag)

Catalog No: tcip3015



## Available Sizes

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**Size:** 100µg



## Specifications

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**Application:**

ELISA, WB, Cytotoxicity

**Research Area:**

Virology

**Form:**

Frozen Liquid

**Concentration:**

Supplied in PBS + 15% Glycerol at a concentration of 1 mg/mL.; Protein demonstrates a molecular weight of approximately 30 kDa

**Recommended Dilution:**

ELISA: Assay-dependent dilution; internal QC demonstrates detection down to 1 ng/mL of LukS-PV protein when detected with mouse anti-LukS monoclonal antibody (cat # tcia126) as capture and rabbit anti-LukS polyclonal antibody (cat# tcia174) as a secondary followed by anti-rabbit horseradish peroxidase conjugate and substrate. ; WB: Assay-dependent dilution; internal QC demonstrates detection of 1 ng of LukS-PV protein when detected with anti-PVL LukS polyclonal antibody (cat# tcia174) in Western blotting. ; PVL Cytotoxicity assay: Cytotoxicity can be detected in human neutrophils when used in combination with LukF-PV in a concentration range of 1-100 nM.

**Purity / Grade:**

Column chromatography

**Storage Instruction:**

2-3 weeks at -20°C, -80°C long term

**Relevance:**

This protein may be used in functional PVL toxicity assays in combination with LukF-PV, or as a control protein in ELISA assays or Western blotting when detecting LukS in PVL (+) strains of *S. aureus*.

## Product Description

Purified, His-tagged *Staphylococcus aureus* PantoneValentine Leukocidin (PVL) S subunit (LukS-PV). ;

The theoretical molecular weight of the protein is 33,713 Daltons including the His-tag. ;

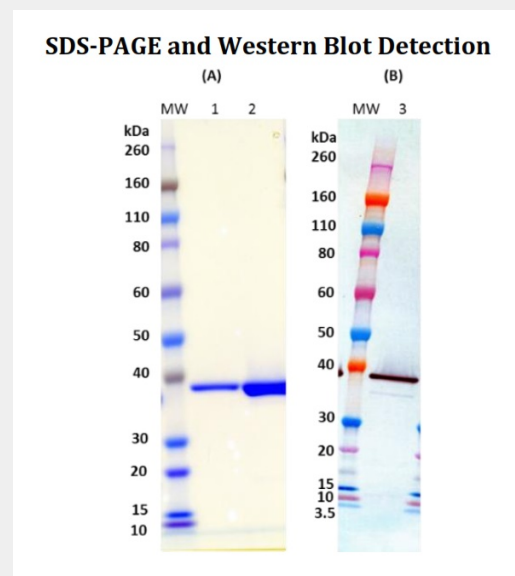
Related Products:

Anti- *S. aureus* PVL LukS Polyclonal Antibody Catalog # tcia174 ;

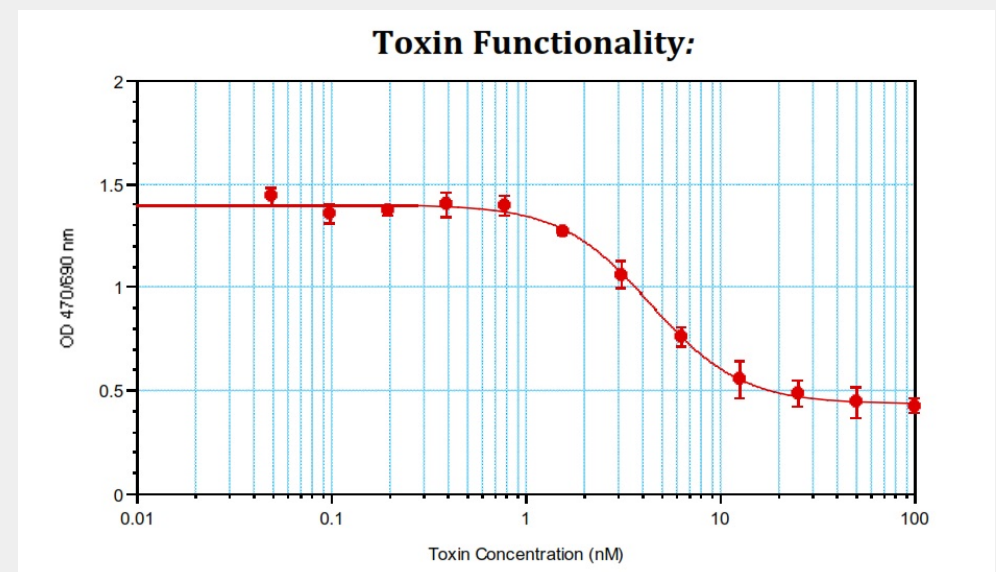
Anti- *S. aureus* LukS-PV Monoclonal Antibody Catalog # tcia126;

Anti- *S. aureus* Alpha-Hemolysin Polyclonal Antibody Catalog # tcia175 ;

*S. aureus* LukF-PV Catalog # tcip3016



(A) SDS-PAGE of 1 µg and 5 µg (lanes 1 and 2) of LukF-PV followed by Coomassie staining. ; (B) Western blot detection of 100 ng (lane 3) of LukF-PV using Taiclone's anti-LukFPV polyclonal antibody (Cat# tcia158) at 0.5 µg/mL and an anti-rabbit IgG-HRP conjugate, followed by TMB substrate.



**Toxin Functionality:** Human promyelocytic leukemia cell line HL-60 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 adding XTT and incubation for additional 16 hours. Cells were centrifuged and the OD determined in the supernatants at 470/690nm. EC<sub>50</sub> was found to be 4.36 nM.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!