

S. aureus LukF-PV (His-tag, N-terminus)

Catalog #: 0530-002

Lot #: 1606003

Description: Purified, His-tagged *Staphylococcus aureus* Panton-Valentine Leukocidin (PVL) F subunit (LukF-PV). The theoretical molecular weight of the protein is 35 kDa including the His-tag.

Storage: 2-3 weeks at -20°C, -80°C long term

Size: 100 µg of protein is supplied in PBS + 10% Glycerol at a concentration of **0.472 mg/mL**. Protein demonstrates a molecular weight running close to 37 kDa.

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

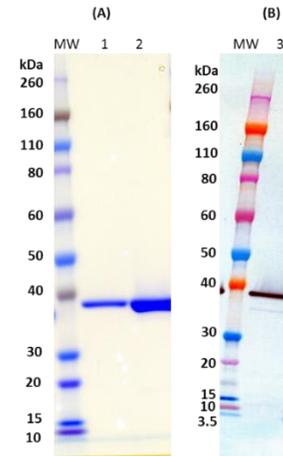
ELISA: Assay-dependent dilution.

WB: Assay-dependent dilution; internal QC demonstrates detection of 100 ng of LukF-PV protein when detected with anti-PVL LukF polyclonal antibody (cat: 0312-002) 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.

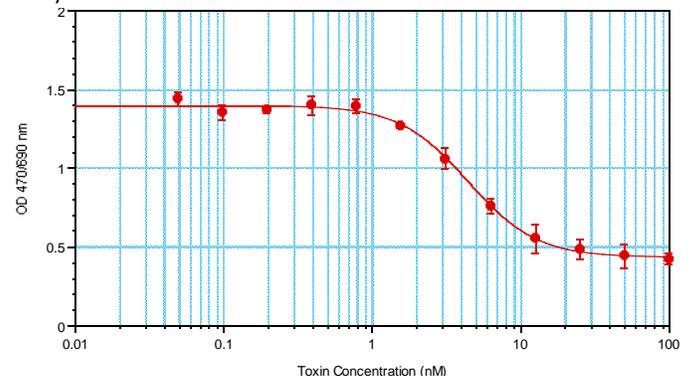
For additional *S. aureus* products, please visit:
<http://www.ibtbioservices.com/reagents/staphylococcus/>

SDS-PAGE and Western Blot Detection



(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 using IBT's anti-LukF-PV polyclonal antibody (Cat: 0312-002) 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% CO₂ 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. EC₅₀ was found to be 4.36 nM.



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