

## *S. aureus* LukAB (tag-free)

Catalog #: 0510-001

Lot #: 1710005

**Description:** Purified, tag-free recombinant *Staphylococcus aureus* LukAB heterodimer. The theoretical molecular weight of LukA is 37,082 Daltons and the molecular weight of LukB is 35,573 Daltons.

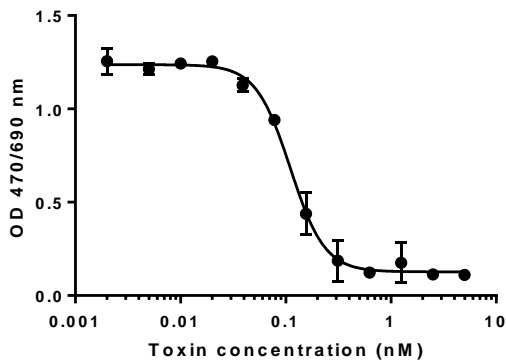
**Storage:** -80°C long term

**Size:** 100 µg of protein is supplied at a concentration of 1.524 mg/mL in sodium phosphate buffer containing sodium chloride and 5% glycerol.

**Relevance:** This protein may be used in functional HL-60 toxicity assay, or as a control protein when detecting LukAB in strains of *S. aureus*.

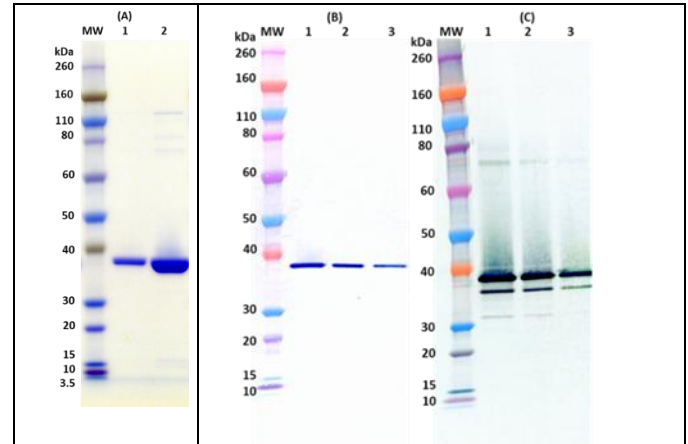
**Recommended Dilutions:** Assay-dependent dilutions.

### Toxin Functionality



Human promyelocytic leukemia cell line HL60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of LukAB for 3 hours at 37°C with 5% CO<sub>2</sub> and 95% humidity. Cellular viability was determined by adding XTT and incubating for additional 16 hours. Cells were centrifuged and the OD determined in the supernatants at 470/690 nm. EC<sub>50</sub> value was determined to be 0.111 nM.

### SDS-PAGE and Western Blot Detection



#### SDS-PAGE (Panel A)

1 µg and 5 µg of LukAB were loaded under denaturing and reducing condition (lanes 1 and 2). MW denotes Novex® Sharp prestained protein markers.

#### Western Blots (Panels B and C)

Heat-denatured and reduced LukAB was loaded at 200 ng, 100 ng and 50 ng (lanes 1, 2 and 3).

In Panel (B), LukA was detected using 0.5 µg/mL of rabbit anti-LukA polyclonal antibody (Cat# 0316-001).

In Panel (C), LukB was detected using 0.5 µg/mL of rabbit anti-LukB polyclonal antibody (Cat# 0317-001).

An anti-rabbit IgG-HRP conjugate was then added, followed by TMB Membrane Substrate.

For additional *S. aureus* products, please visit:

<http://www.ibtbioservices.com/reagents/staphylococcus/>

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