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S. aureus LukAB (tag-free)

Catalog #: 0510-001

Lot #: 2002001

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.

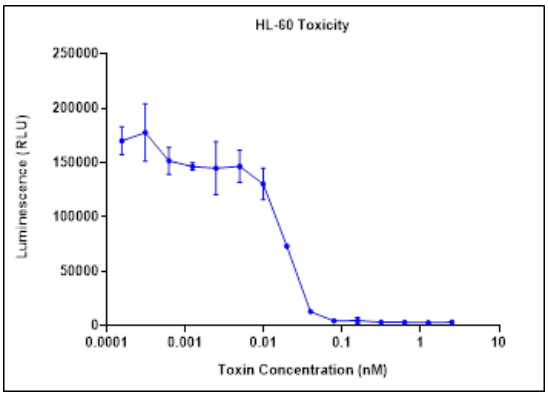
Storage: -80°C long term

Size: 100 µg of protein is supplied at a concentration of **1.812 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*.

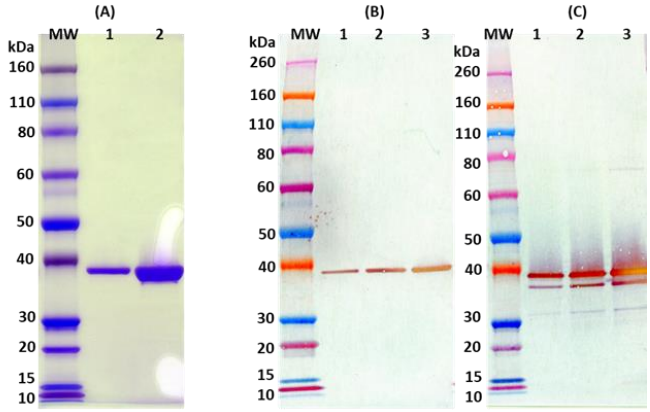
Recommended Dilutions: Assay-dependent dilutions.

Toxin Functionality



Human promyelocytic leukemia cell line HL-60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of LukAB for 3 hours at 37°C with 5% CO2 and 95% humidity. Promega's CellTiter-Glo® was added to cells and incubated for an additional 10-15 min on a shaker, at ambient temperature. Cell viability was determined from the luminescence signals (RLU).

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 50 ng, 100 ng and 200 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/