



IBT BIOSERVICES

Rabbit anti-LukAB Polyclonal Ab

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Catalog #: 0313-001

Lot #: 1808005

Immunogen: Recombinant protein of *Staphylococcus aureus* Leukocidin A (LukA) and Leukocidin B (LukB) heterodimer with proprietary mutation.

Description: Protein A-purified rabbit polyclonal antibody reactive to *Staphylococcal* LukA and LukB.

Supplied: 500 µg is supplied in citrate-containing buffer at a concentration of 4.231 mg/mL.

Raised in: Rabbits

Clonality: Polyclonal

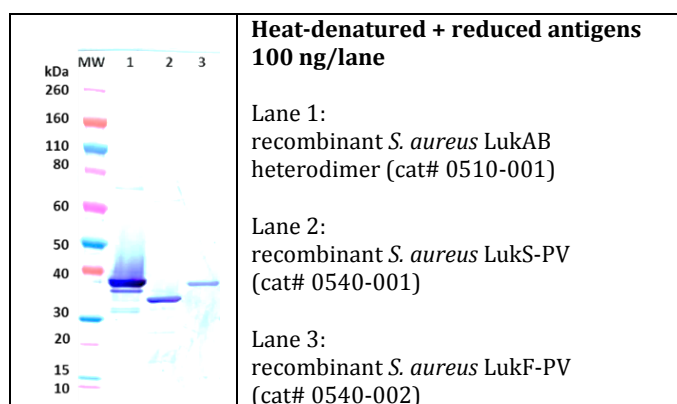
Relevance: The antibody can be used for detection of *Staphylococcal* LukA and LukB, in ELISA, Western Blot and as positive control antibody in neutralizing assay.

Recommended Dilutions: Optimal use dilution should be determined in each individual application.

Storage: -80°C long term. Avoid multiple freeze thaws.

Cross Reactivity: In ELISA and Western Blot, cross-reactivity was observed against other *Staphylococcus aureus* leukocidins, specifically LukS-PV and LukF-PV. However, no cross-reactivity was observed in neutralization assay.

Western Blot Data:



Western Blot was detected with 0.1 µg/mL of Rabbit anti-LukAB polyclonal antibody and visualized using an anti-rabbit IgG-HRP, followed by TMB Membrane Substrate.

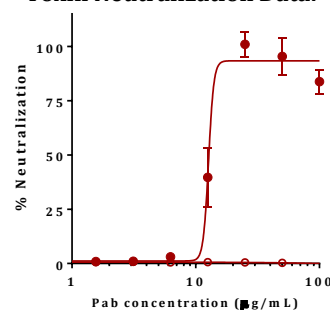
For additional *S. aureus* products, please visit:
<http://www.ibtbioservices.com/reagents/staphylococcus/>

ELISA Data:

Rabbit anti-LukAB antibody (µg/mL)	Coating Antigen 100 ng/well		
	recombinant LukAB heterodimer	recombinant LukS-PV protein	recombinant LukF-PV protein
10.0000	3.737	3.548	2.778
3.1623	3.742	3.297	1.130
1.0000	3.637	2.337	0.479
0.3162	3.113	1.276	0.209
0.1000	2.110	0.555	0.116
0.0316	1.082	0.250	0.086
0.0100	0.428	0.116	0.077
0.0032	0.219	0.113	0.071
0.0010	0.128	0.072	0.066
0.0003	0.081	0.068	0.075
0.0001	0.160	0.064	0.067
0.0000	0.072	0.069	0.086
OD 650			

Recombinant *S. aureus* LukAB heterodimer, recombinant LukS-PV protein and recombinant LukF-PV protein were coated onto ELISA plate at 100 ng/well. Rabbit anti-LukAB polyclonal antibody was serially diluted semi-log from 10 µg/mL and incubated on the coated plate. Washed plate was detected with anti-rabbit IgG-HRP and TMB Microwell Substrate. OD650 is reported above. The rabbit anti-LukAB polyclonal antibody showed reactivity against recombinant *S. aureus* LukAB heterodimer. Cross-reactivity was observed against recombinant *S. aureus* LukS-PV and LukF-PV proteins.

Toxin Neutralization Data:



Human promyelocytic leukemia cell line HL60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions the rabbit anti-LukAB polyclonal antibody and recombinant LukAB heterodimer or recombinant LukS-PV in combination with recombinant LukF-PV at equimolar concentrations, for 3 hours at 37°C with 5% CO₂ 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. Percent neutralization was calculated. EC₅₀ value was determined to be 12.7 µg/mL against LukAB -induced cytotoxicity (closed circles). No neutralization was observed against cytotoxicity induced by LukS-PV and LukF-PV (open circles).

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

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