

Rabbit anti-LukAB pAb

Catalog #: 0313-001

Description:

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

Immunogen/ Target:

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

Formulation & Storage: Supplied in citrate-containing buffer. **Store at** -80°C for long term. Avoid multiple freeze thaws.

Notes & Usage Guidelines:

Clonality/Isotype: Polyclonal; N/A

Host: Rabbit

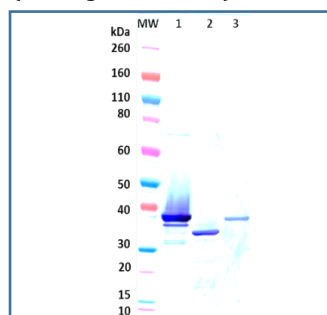
ELISA: Assay-dependent dilution

WB: Assay-dependent dilution

Applications

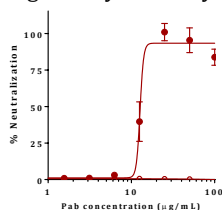
Western Blot Data:

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. Heat-denatured and reduced antigens at 100 ng/lane. Lane 1: recombinant *S. aureus* LukAB heterodimer (Catalog # 0510-001). Lane 2: recombinant *S. aureus* LukS-PV (Catalog # 0540-001). Lane 3: recombinant *S. aureus* LukF-PV (Catalog # 0540-002).



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).



ELISA Data:

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. 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.

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		

Certificate of analysis:

A hardcopy of datasheet is sent along with the products. Please refer to it for detailed information. For older lots, refer to the applicable certificate of analysis that may be requested at products@ibtbioservices.com.

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