

Anti- *Staphylococcus aureus* Leukocidin A/B (LukAB) Chimeric mAb

Catalog #: 0221-020

Description: Human monoclonal antibody reactive to the *Staphylococcus aureus* LukA and LukB heterodimer (leukocidin AB; also known as LukGH). This antibody detects LukAB in ELISA and is suitable for research applications.

Immunogen/ Target: Recombinant *Staphylococcus aureus* leukocidin AB (LukAB) heterodimeric protein.

Formulation & Storage: Supplied in PBS. **Store at:** -80°C

Notes & Usage Guidelines:

Clonality/Isotype: Monoclonal

Host: Chimeric

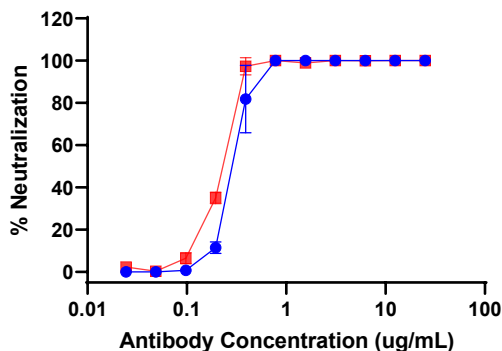
ELISA: Assay-dependent dilution

WB: N/A

Applications

Neutralization Data:

Cell line HL60 was differentiated into neutrophils by treatment with DMSO. Cells were incubated with serial dilutions the chimeric anti-LukAB mAb and recombinant LukAB heterodimer 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 0.2 µg/mL against LukAB -induced cytotoxicity (blue closed circles) compared to previous lot (red closed squares)



ELISA Data:

S. aureus LukAB heterodimer was diluted to 2 µg/mL in PBS for plate coating and incubated overnight at 4°C. Anti-LukAB Chimeric mAb (Clone 796) was serially diluted two-fold starting at 25 µg/mL and incubated on the coated plates for 1 hour at room temperature. Washed plates were detected with goat anti-human IgG-HRP conjugate (Seracare, Cat. #5450-0009) and developed using TMB substrate. OD₆₅₀ values were recorded, and EC₅₀ was comparable to previous lots, confirming consistency between production batches.

mAb Concentration (µg/mL)	1	2
20	3.1615	3.3193
4	3.167	3.298
0.8	2.9428	3.1618
0.16	2.4349	2.8203
0.032	1.3132	1.6743
0.0064	0.3682	0.4441
0.00128	0.1645	0.1733
0.000256	0.2302	0.2438
mAb 796		

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 services@ibtbioservices.com

Related Products:

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