

Mouse anti-Staphylococcal Alpha Hemolysin Toxin Monoclonal Antibody (8B7)

Catalog No: tcia122



Available Sizes

Size: 100μg



Specifications

Application:

ELISA, WB, Neutralization

Research Area:

Virology

Host Species:

Mouse

Immunogen / Amino acids:

Polypeptide sequence of Staphylococcus alphahemolysin targeting the N terminus of the mature toxin.

Conjugation:

Unconjugated

Clonality:

monoclonal

Clones:

monoclonal

Isotype:

IgG

Form:

Frozen Liquid, Protein A/G Purified

Concentration:

Supplied in PBS at a concentration of 1.68 mg/mL.

Recommended Dilution:

Optimal use dilution should be determined for each individual application.

Storage Instruction:

2-3 weeks +4°C, -20°C long term. Avoid multiple freeze thaws.

Relevance:

The antibody can be used for detection and neutralization of alpha-toxin produced by virulent strains of S.aureus.

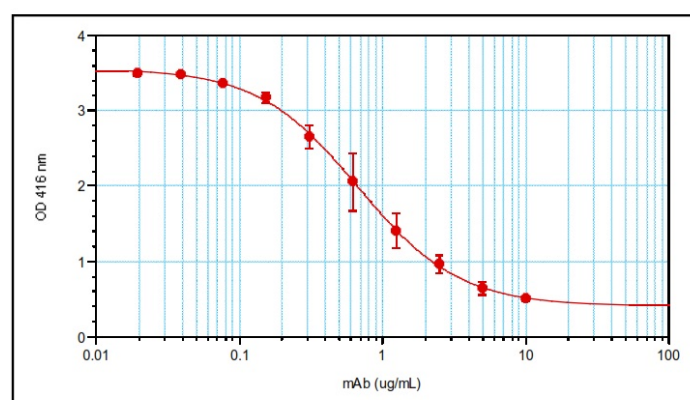
Purification:

Protein A/G

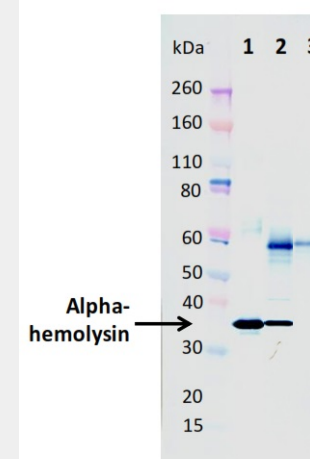
Product Description

Mouse monoclonal antibody (mAb) reactive to full length Staphylococcus aureus alpha-hemolysin (alpha-toxin). ;The antibody detects the antigen produced by S. aureus strains in Western Blotting and ELISA and neutralizes the hemolytic activity of the toxin.

Toxin neutralization: Using a rabbit RBC lysis assay, EC₅₀ of this antibody for neutralization of 0.3 µg/mL of alpha-toxin was determined to be 0.676 µg/mL.



Western Blot Data:



Western blot was detected with anti-alpha hemolysin mAb 8B7 at 1 µg/mL and visualized using an anti-mouse IgG-HRP conjugate and TMB membrane substrate. MW denotes Novex Sharp prestained protein markers. Alpha-toxin at 100 ng (lane 1) is visualized as a protein band at ~33 kDa. Protein band at ~33 kDa was also detected in the culture supernatant of USA300 (lane 2), but not in the negative control USA300 ΔHla strain (lane 3).

ELISA Data:	OD 650		
Antibody (µg/mL)	Alpha-Toxin @ 1 µg/mL	Staph enterotoxin B @ 1 µg/mL	rLukS-PV @ 1 µg/mL
2.0000	1.6850	0.0710	0.1160
0.6325	1.1520	0.0530	0.0890
0.2000	0.6750	0.0510	0.0720
0.0632	0.3510	0.0480	0.0680
0.0200	0.1960	0.0500	0.0670
0.0063	0.0910	0.0740	0.0690
0.0020	0.0630	0.0630	0.0770
0.0006	0.0570	0.0540	0.0800
0.0000	0.0610	0.0560	0.0850

Various Staphylococcal toxins were coated to plates at a concentration of 1 µg/mL in PBS. ;Anti-alpha hemolysin mAb 8B7 was serially diluted semi-log from 2 µg/mL and incubated on the toxin coated plates. ;Washed plates were detected with antimouse IgG-HRP conjugate and TMB substrate. OD 650 is reported above.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!