



Mouse anti-Methicillin-resistant *Staphylococcus aureus* monoclonal antibody, clone MN615 (CABT-CS257)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	MRSA
Immunogen	Purified MRSA protein (mecA)
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	MRSA
Clone	MN615
Conjugate	unconjugated
Applications	ELISA, WB, IP, IHC
Format	Lyophilized
Size	1 mg
Storage	Lyophilized: 2-8°C (desiccated) Reconstituted: Short Term 2-8°C Long Term: -20°C. Avoid repeated freezing and thawing

BACKGROUND

Introduction	Methicillin-resistant <i>Staphylococcus aureus</i> , MRSA bacterium also be referred to as multiply-resistant <i>Staphylococcus aureus</i> or oxacillin-resistant <i>Staphylococcus aureus</i> , ORSA, evolved
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the ability to survive treatment with beta-lactam antibiotics, including penicillin, methicillin, and cephalosporins. Common strains of MRSA are EMRSA15 and EMRSA16. EMRSA16 is best described epidemiologically & found to be identical to the ST36:USA200 strain. Under the new international typing system, ST36:USA200 strain is now called MRSA252. It is not entirely certain why this strain has become so successful, whereas previous strains have failed to persist. One explanation is the characteristic pattern of antibiotic susceptibility. Both the EMRSA15 and EMRSA16 strains are resistant to erythromycin and ciprofloxacin. It is known that *Staphylococcus aureus* can survive intracellularly, and these are precisely the antibiotics that best penetrate intracellularly; it may be that these strains of *S. aureus* are therefore able to exploit an intracellular niche. Most cases of CA-MRSA are caused by a CC8 strain designated ST8:USA300, which carries *mec* type IV, Panton-Valentine leukocidin, PSM-alpha and enterotoxins Q and K, and ST8:USA400. Other community-associated strains of MRSA are ST8:USA500 and ST59:USA1000.

Keywords

MRSA; *Staphylococcus*; Anti Methicillin-Resistant *Staphylococcus Aureus*; MRSA (*Staphylococcus aureus*); Methicillin-resistant *Staphylococcus aureus*
