

Antibody to MRSA (Staphylococcus aureus) MOUSE MONOCLONAL

Catalog Number: Quantity:	AB-533 500 micrograms, 1 milligram
Format:	Lyophilized
Host:	Mouse
Isotype:	IgG1
Clone:	NYR-MRSA
Immunogen:	Gel-purified MRSA protein

Background:

Methicillin-resistant *Staphylococcus aureus* (MRSA) is resistant to beta lactam antibiotics such as penicillin, methicillin, and cephalosporins. MRSA can also be referred to as multiply-resistant *Staphylococcus aureus* or oxacillin-resistant *Staphylococcus aureus* (ORSA). 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 erythromycinand 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

Specificity and Preparation:

Mouse antibody is purified by ion exchange column. Protein concentration is 1mg/ml in PBS (after reconstitution). MRSA positive *S. aureus* may also be known as oxacillin-resistant *S. aureus* (ORSA) and multiple-resistant Staphylococcus aureus.

Usage and Storage:

Reported to be effective for direct ELISA, western blot, immunoprecipitation, immunohistochemistry, and affinity purification. Titer: by direct ELISA (against purified MRSA protein or MRSA positive *S. aureus* lysate), 1:5,000 dilution will yield 0.5 O.D (purified protein) and 0.2 O.D.(MRSA positive *S. aureus* lysate) using alkaline phosphatase conjugated rabbit anti-mouse Ig (Jackson Laboratories).

Reconstitute with H2O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. In lyophilized form, for long periods, store at 4°C in dry environment. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Antibody is stable for two years lyophilized, one month in solution at 4°C. Antibody is shipped lyophilized at ambient temperature.

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