

Mouse Anti-Strep. Group A Monoclonal Antibody

Mouse, Monoclonal (Strep. Group A)

Cat. No. DMAB4330

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Monoclonal Antibody to Streptococcus, Group A

Antigen Description: Group A streptococci, cause a wide-range of disease in humans, from mild sore throats to life-threatening invasive disease such as necrotising fasciitis. Streptococcus pyogenes (a group A Streptococcus) is one of the most important pathogens encountered in clinical practice. Group A streptococci (GAS) are gram-positive, nonmotile, non-spore-forming organisms that appear as pairs or short-to-moderate-sized chains. Group A organisms can be identified by enzyme immunoassays.

Specificity: Specific for Group A carbohydrate.

Clone: A3402

Immunogen: Streptococcus Group A whole cells, fixed and digested to remove proteins

Isotype: IgM

Host animal: Mouse

Source: Ascites

Format: FITC, Liquid

Applications: Suitable for use in direct FA staining. A starting range of 1:5-1:20 is recommended. Each laboratory should determine an optimum working titer for use in its particular application. Acetone fixation of the antigen source is recommended prior to staining.

Purification: Protein A chromatography

Affinity Constant: Not determined

REFERENCES

1. Ryan KJ, Ray CG, et al, ed (2004). Sherris Medical Microbiology (4th ed.). McGraw Hill. pp. 286–8.
2. Smith JP, Durfee KK, Marymont JH (March 1979). "A review of laboratory methods for identification of group B streptococci (Streptococcus agalactiae)". Am J Med Technol 45 (3): 199–204.

BACKGROUND

Introduction: The genus Streptococcus is comprised of a wide variety of both pathogenic and commensal gram positive bacteria which are found to inhabit a wide range of hosts, including humans, horses, pigs and cows. Within the host, streptococci are often found to colonize the mucosal surfaces of the mouth, nose and pharynx. Streptococci can be divided into many groups on the basis of antigenic differences in group-specific polysaccharides located in the bacterial cell wall. More than 20 serologic groups have been identified and designated by letters, eg, A, B, C.

Keywords: Strep A; Streptococcus Group A; Group A strep; Group A streptococci; Group A streptococcus

PACKAGING

Concentration: 100ug/ml (OD280nm, E^{0.1%} = 1.3)

Buffer: 0.01M PBS, pH 7.2 containing 10mg/ml BSA

Preservative: 0.1% Sodium azide

Storage: Upon receipt, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

Warning: This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1 – 1.0 %. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.