Anti-NADase (hemolytic streptococcus) antibody, rabbit serum

Polyclonal antibody: rabbit serum

64--005　　50 μ l,　　64--006　　250 μ l

NAD (nicotinamide adenine dinucleotide) hydrolyzing enzyme is one of the extracellular enzymes and toxins produced by hemolytic streptococci. Although the function as a toxin is largely unknown, it has been suggested to be related to pathogenicity of acute infection (1). NADase is produced not only by Group A hemolytic streptococci but also by Group C and Group G strains. The amino acid sequences are highly conserved among them and the antibodies cross-react each other. Upon infection of hemolytic streptococci, the antibody titer to the NADase is increased similarly to anti-SLO (Strreptolysin O) antibody.

The product was prepared by immunizing rabbit with purified recombinant NADase of Group C hemolytic streptococci expressed in E, coli (2).

Application

1) Western blotting (x2,000~10,000 dilution)
2) Immunoprecipitation
3) Neutralization of NADase activity

Specifications

Form; Undiluted anti-serum added with 0.09 % sodium azide

Reactivity: NADase of Group A, C,and G origins

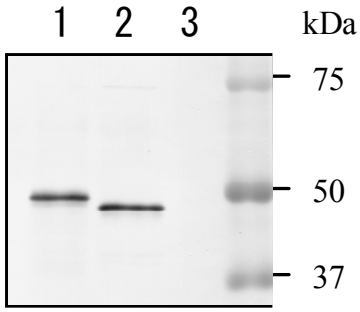
Storage; 4℃ (long period; -70℃)

Reference

1. D. Stevens *et al.*: Molecular epidemiology of nga and NAD glycohydrolase/ADP-ribosyltransferase activity among Streptococcus pyogenes causing streptococcal toxic shock syndrome, *J. Infect. Dis.,* 182, 1117-1128 (2000).

2. H. Kimoto *et al.*: Genetic and biochemical properties of streptococcal NAD-glycohydrolase inhibitor. *J. Biol. Chem.*, **277**, 14695-14702 (2006).

Fig. Detection of NADase in the culture supernatant of hemolytic streptococci with anti-NADase.
Lane 1; Culture supernatant of group A streptococcus
Lane 2; Culture supernatant of group C streptococcus
Lane 3; Culture medium only (negative control)



* This product is for research use only, not for human use.

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