

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 (Streptolysin 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°C (long period; -70°C)

Reference

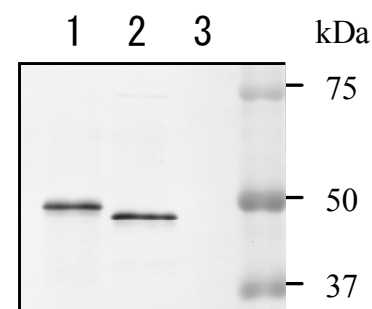
1. D. Stevens *et al.*: Molecular epidemiology of nga and NAD glycohydrolase/ADP-ribosyltransferase activity among *Streptococcus pyogenes* causing streptococcal toxic shock syndrome, *J. Infect. Dis.*, 182, 1117-1128 (2000).
2. H. Kimoto *et al.*: Genetic and biochemical properties of streptococcal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

<Distributed by>: SCETI K.K. DF Kasumigaseki Place, 3-6-7 Kasumigaseki,
Chiyoda-ku Tokyo 100-0013 JAPAN Tel: +81-3-5510-2347 Fax: +81-3-5510-0134
E-mail: exp-pet@sceti.co.jp URL: www.sceti.co.jp/export/
<Manufactured by> : BioAcademia, Inc. 7-7-18 Saito-Asagi, Ibaraki, Osaka 567-0085, JAPAN