Anti- *Streptococcus* NADase antibody, rabbit serum

Product code	64-005
Size	100 µl
Storage	Store 4℃ for short term For long term storage store at -20℃. Aliquot to avoid repeated freezing and thawing.
Concentration	N/A
Buffer	0.09% sodium azide
Purity	Rabbit antiserum
Immunogen	Purified recombinant NADase of Group C hemolytic streptococci expressed in *E. coli*
Isotype	Rabbit IgG
Reactivity	NADase of Group A, C and G origins
Special notes	N/A
Application	1. Western blotting (1/2000-1/10000) 2. Immunoprecipitation 3. Neutralization of NADase activity 4. ELISA
Background	NAD (nicotinamide adenine dinucleotide) hydrolyzing enzyme is one of the extracellular enzymes and toxins produced by hemolytic streptococci. Although its 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 increases similarly to anti-SLO (Streptolysin O) antibody.
Data Link	UniProt KBQ5R2E3 (Q5R2E3_STREQ)

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.

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Data Images: 64-005 Anti- *Streptococcus* NADase antibody, rabbit serum

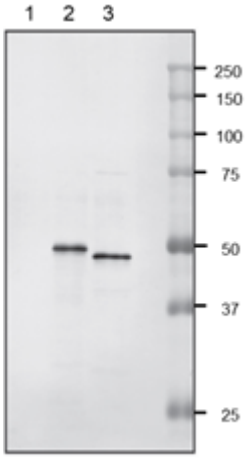

Fig.1 Detection of NADase in the culture supernatant of hemolytic streptococci with anti-NADase.

Lane 1: Culture medium only (negative control)

Lane 2: Culture supernatant of group A streptococcus

Lane 3: Culture supernatant of group C streptococcus

References: This antibody was described and used in the following publications.

1.Kimoto H *et al* "Genetic and biochemical properties of streptococcal NAD-glycohydrolase inhibitor "*J Biol Chem* **281**: 9181-9189 (2006) PMID: 16380378

2. Minami M et al. "Clindamycin-Induced CovS-Mediated Regulation of the Production of Virulent Exoproteins Streptolysin O, NAD Glycohydrolase, and Streptokinase in *Streptococcus pyogenes"*Antimicrob.AgentsChemother.**49:**88–96(2010). .PMID: 19805566

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