

PRODUCT SPECIFICATION

STATENS
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HYB 153-01 Anti Nitrite Oxidoreductase (β -NOR)

Mouse monoclonal antibody

Article No.	64655															
Product Name	HYB 153-01 Anti Nitrite Oxidoreductase (β -NOR)															
Clone	7G9															
Subclass	IgG1 / Kappa															
Description	<p>Preparation: Protein-A purified</p> <p>Content: 1 mg/mL, based on $E_{1\%}^{1\%}=14.0$ at A_{280}</p> <p>Solvent: 0.01 M PB, pH 7.4, with 0.5 M NaCl</p> <p>Storage: -18 °C or colder</p>															
Antigen	<p>Nitrite Oxidoreductase (NOR) is an enzyme catalysing the oxidation of nitrite and is located at the inner side of the cytoplasmic and intracytoplasmic membranes of <i>Nitrobacter</i> species (1). NOR from <i>N. hamburgensis</i> (2) consists of at least two major subunits, α-NOR and β-NOR, with molecular masses of approximately 130 kDa and 65 kDa respectively.</p> <p>The <i>Nitrobacter</i> species are gram-negative microorganisms ubiquitous in nature and gain energy from the oxidation of nitrite to nitrate.</p>															
Immunogen	Nitrite Oxidoreductase purified from <i>N. hamburgensis</i> .															
Specificity	β -subunit of NOR from <i>N. hamburgensis</i> K ₄ , <i>N. winogradskyi agilis</i> K ₁ , <i>N. winogradskyi</i> 213, <i>N. winogradskyi</i> 215, <i>N. winogradskyi</i> 255, and <i>N. vulgaris</i> K ₄₈ .															
Epitope Specificity	HYB 153-01 Anti Nitrite Oxidoreductase (β -NOR) clone 7G9 reacts with a different epitope compared with HYB 153-07 Anti Nitrite Oxidoreductase (β -NOR) clone 14D5.															
Reactivity	HYB 153-01 Anti Nitrite Oxidoreductase (β -NOR) clone 7G9 reacts well in ELISA coated with cell extract as well as in immunoblotting with a band of approximately 65 kDa corresponding to the β -subunit of NOR (3-4). HYB 153-01 Anti Nitrite Oxidoreductase (β -NOR) clone 7G9 has also been used for immunofluorescent staining of β -NOR in cells (4).															
Culture Medium	Dulbecco's modified Eagle's medium with 10 % fetal calf serum.															
Fusion Partner	X63-Ag8.653.															
Immunization	Female CF1xBalb/c F1 hybrid mice were immunized i.p. with immunogen.															
Application	<table border="1"><thead><tr><th>Method</th><th>Usability</th><th>References</th></tr></thead><tbody><tr><td>ELISA</td><td>yes</td><td></td></tr><tr><td>Immunoblotting</td><td>yes</td><td>3-4</td></tr><tr><td>Immunofluorescence</td><td>yes</td><td>4</td></tr><tr><td>Immunocytochemistry</td><td>yes</td><td>4</td></tr></tbody></table>	Method	Usability	References	ELISA	yes		Immunoblotting	yes	3-4	Immunofluorescence	yes	4	Immunocytochemistry	yes	4
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Immunoblotting	yes	3-4														
Immunofluorescence	yes	4														
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References	<ol style="list-style-type: none">1) Sundermeyer-Klinger, H., Meyer, W., Warninghoff, B. and Bock, E. (1984) Membrane-bound nitrite oxidoreductase of <i>Nitrobacter</i>: evidence for a nitrate reductase system. Arch Microbiol. 140, 153-158.2) Meincke, M., Bock, E., Kastrau, D. and Kroneck, P.M.H. (1992) Nitrite oxidoreductase from <i>Nitrobacter hamburgensis</i>: redox centers and their catalytic role. Arch. Microbiol. 158, 127-131.3) Aarmand J, Ahl T, Spieck E. Monoclonal antibodies recognizing nitrite oxidoreductase of <i>Nitrobacter hamburgensis</i>, <i>N. winogradskyi</i>, and <i>N. vulgaris</i>. Appl Environ Microbiol. 1996 Jul;62(7):2352-5.4) Bartosch, S, Wolgast, I, Spieck, E, and Bock, E. Identification of nitrite-oxidizing bacteria with monoclonal antibodies recognizing the nitrite oxidoreductase. Appl.Environ.Microbiol. 1999 65, 4126-4133.															

Conditions

For research use only. Not for use in diagnostic procedures.

The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.

Statens Serum Institut
5 Artillerivej
DK-2300 Copenhagen
Denmark

T +45 3268 3730
F +45 3268 3868
@ ssi-antibodies@ssi.dk
w ssi.dk

www.ssi.dk/antibodies