

PRODUCT SPECIFICATION

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HYB 153-07 Anti Nitrite Oxidoreductase (β -NOR)

Mouse monoclonal antibody

Article No.	63155								
Product Name	HYB 153-07 Anti Nitrite Oxidoreductase (β -NOR)								
Clone	14D5								
Subclass	IgG1 / Kappa								
Description	<p>Preparation: Protein-A purified</p> <p>Content: 1 mg/mL, based on $E_{1\%}^{14.0}$ 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> X14, <i>N. winogradskyi</i> Engel, <i>N. vulgaris</i> T3, <i>N. alkalicus</i> AN4 and <i>N. BS 5/6</i> . No reaction has been observed with <i>Nitrococcus</i> , <i>Nitrospira</i> and <i>Nitrospina gracilis</i> 3/211.								
Epitope Specificity	HYB 153-07 Anti Nitrite Oxidoreductase (β -NOR) clone 14D5 reacts with a different epitope compared with HYB 153-01 Anti Nitrite Oxidoreductase (β -NOR) clone 7G9.								
Reactivity	<p>HYB 153-07 Anti Nitrite Oxidoreductase (β-NOR) clone 14D5 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.</p> <p>HYB 153-07 Anti Nitrite Oxidoreductase (β-NOR) clone 14D5 was previously named HYB 153-01 Anti Nitrite Oxidoreductase (β-NOR) clone 14D5.</p>								
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></tr></thead><tbody><tr><td>ELISA</td><td>yes</td></tr><tr><td>Immunoblotting</td><td>yes</td></tr><tr><td>Immuno.fluoresc.</td><td>nd.</td></tr></tbody></table>	Method	Usability	ELISA	yes	Immunoblotting	yes	Immuno.fluoresc.	nd.
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See next page

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References

- 1) **Sundermeyer-Klinger, H., Meyer, W., Warninghoff, B. and Bock, E.** (1984) Membrane-bound nitrite oxidoreductase of Nitrobacter: 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 Nitrobacter hamburgensis: redox centers and their catalytic role. Arch. Microbiol. 158, 127-131.

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.