

PRODUCT SPECIFICATION

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

Mouse monoclonal antibody

Article No.	63155 (0.2 mL), 101089 (1.0 mL)	
Product Name	HYB 153-07 Anti Nitrite Oxidoreductase (β -NOR)	
Clone	14D5	
Subclass	IgG1 / Kappa	
Description	Preparation:	Protein-A purified
	Concentration:	1 mg/mL \pm 10%, based on A ₂₈₀ . See Certificate of Analysis for details.
	Solvent:	PBS, pH 7.2 – 7.4
	Storage:	-18 °C or colder
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	Method	Usability
	ELISA	yes
	Immunoblotting	yes
	Immuno.fluoresc.	nd.

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. Not for therapeutic use or applications.

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