

# PRODUCT SPECIFICATION

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## HYB 153-06 Anti Nitrite Oxidoreductase ( $\alpha$ -NOR)

*Mouse monoclonal antibody*

<b>Article No.</b>	63154								
<b>Product Name</b>	HYB 153-06 Anti Nitrite Oxidoreductase ( $\alpha$ -NOR)								
<b>Clone</b>	7G8								
<b>Subclass</b>	IgG1 / Kappa								
<b>Description</b>	<b>Preparation:</b> Protein-A purified <b>Content:</b> 1 mg/mL, based on EB <sub>(1%)</sub> B=14.0 at AB <sub>280</sub> <b>Solvent:</b> 0.01 M PB, pH 7.4, with 0.5 M NaCl <b>Storage:</b> -18 °C or colder								
<b>Antigen</b>	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, $\alpha$ -NOR and $\beta$ -NOR, with molecular masses of approximately 130 kDa and 65 kDa, respectively. The <i>Nitrobacter</i> species are gram-negative microorganisms ubiquitous in nature and gain energy from the oxidation of nitrite to nitrate.								
<b>Immunogen</b>	Nitrite Oxidoreductase purified from <i>N. hamburgensis</i> .								
<b>Specificity</b>	$\alpha$ -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</i> 5/6.								
<b>Epitope Specificity</b>	HYB 153-06 Anti Nitrite Oxidoreductase ( $\alpha$ -NOR) clone 7G8 reacts with a different epitope compared with HYB 153-02 Anti Nitrite Oxidoreductase ( $\alpha$ -NOR) clone 1C4.								
<b>Reactivity</b>	HYB 153-06 Anti Nitrite Oxidoreductase ( $\alpha$ -NOR) clone 7G8 reacts well in ELISA coated with cell extract as well as in immunoblotting with a band of approximately 130 kDa corresponding to the $\alpha$ -subunit of NOR. HYB 153-06 Anti Nitrite Oxidoreductase ( $\alpha$ -NOR) clone 7G8 was previously named HYB 153-02 Anti Nitrite Oxidoreductase ( $\alpha$ -NOR) clone 7G8.								
<b>Culture Medium</b>	Dulbecco's modified Eagle's medium with 10 % fetal calf serum.								
<b>Fusion Partner</b>	X63-Ag8.653.								
<b>Immunization</b>	Female CF1xBalb/c F1 hybrid mice were immunized i.p. with immunogen.								
<b>Application</b>	<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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ELISA	yes								
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<b>References</b>	1) <b>Sundermeyer-Klinger, H., Meyer, W., Warninghoff, B. and Bock, E.</b> (1984) Membrane-bound nitrite oxidoreductase of <i>Nitrobacter</i> : evidence for a nitrate reductase system. <i>Arch. Microbiol.</i> 140, 153-158. 2) <b>Meincke, M., Bock, E., Kastrau, D. and Kroneck, P.M.H.</b> (1992) Nitrite oxidoreductase from <i>Nitrobacter hamburgensis</i> : redox centers and their catalytic role. <i>Arch. Microbiol.</i> 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.

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