

# PRODUCT SPECIFICATION

STATENS  
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## HYB 266-02 Anti Simazine/atrazine

*Mouse monoclonal antibody*

<b>Article No.</b>	48801 (0.2 mL), 101068 (1.0 mL)																
<b>Product Name</b>	HYB 266-02 Anti Simazine/atrazine																
<b>Clone</b>	4D6																
<b>Subclass</b>	IgG1 / kappa																
<b>Description</b>	<b>Preparation:</b>	Protein-A purified															
	<b>Concentration:</b>	1 mg/mL $\pm$ 10%, based on A <sub>280</sub> . See Certificate of Analysis for details.															
	<b>Solvent:</b>	PBS, pH 7.2 – 7.4															
	<b>Storage:</b>	-18 °C or colder															
<b>Antigen</b>	The pesticides (herbicides) simazine and atrazine.																
<b>Immunogen</b>	Simazine-derivative coupled to carrier protein (1).																
<b>Specificity</b>	Cross-reactivities below 24% were found for terbuthylazine, desethylterbuthylazine and desisopropylatrazine (1). The antibody has not yet been tested against propazine.																
<b>Reactivity</b>	This antibody is highly reactive to surfaces coated with proteins conjugated with simazine-derivatives such as HAP 0022 (1). In a competitive assay the antibody can be inhibited by ppb amounts of free simazine and atrazine.																
<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><thead><tr><th>Method</th><th>Usability</th><th>References</th></tr></thead><tbody><tr><td>ELISA</td><td>Yes</td><td>1</td></tr><tr><td>Immunoblotting</td><td>nd.</td><td></td></tr><tr><td>Immunofluorescence</td><td>nd.</td><td></td></tr><tr><td>Immunomicroarray</td><td>Yes</td><td>2</td></tr></tbody></table>	Method	Usability	References	ELISA	Yes	1	Immunoblotting	nd.		Immunofluorescence	nd.		Immunomicroarray	Yes	2	
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ELISA	Yes	1															
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Immunomicroarray	Yes	2															
<b>References</b>	1) <b>L. Bruun, C. Koch, M. Jakobsen, B. Pedersen, M. Christiansen and J. Aamand</b> (2001). Characterisation of antibodies raised against different triazine structures. <i>Analytica Chimica Acta</i> 436, 87-101.  2) <b>E. Belleville , M. Dufva , J. Aamand , L. Bruun , L. Clausen and C. B. V. Christensen</b> (2004) Quantitative microarray pesticide analysis, <i>Journal of Immunological Methods</i> . 286 (1-2), 219-229.																

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