

# PRODUCT SPECIFICATION

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## HYB 273-01 Anti 2,6-dichlorobenzamide (BAM)

*Mouse monoclonal antibody*

<b>Article No.</b>	48803 (0.2 mL), 101070 (1.0 mL)		
<b>Product Name</b>	HYB 273-01 Anti 2,6-dichlorobenzamide (BAM)		
<b>Clone</b>	1C5		
<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 pesticide (herbicide) metabolite 2,6-dichlorobenzamide (BAM). BAM is a metabolite from the herbicide dichlobenil.		
<b>Immunogen</b>	BAM-derivative coupled to carrier protein (1).		
<b>Specificity</b>	10 % cross-reactivity for 2,6-dichlorothiobenzamide (1).		
<b>Epitope Specificity</b>	Not determined.		
<b>Reactivity</b>	This antibody is highly reactive to surfaces coated with proteins conjugated with BAM-derivatives such as HAP 0031 (1, 2). The antibody has been used for different methods for BAM quantification (1-5) In a competitive assay the antibody can be inhibited by ppb amounts of free BAM. (1)		
<b>Culture Medium</b>	Dulbecco's modified Eagle's medium with 10% fetal calf serum.		
<b>Fusion Partner</b>	SP2/O-Ag14.		
<b>Immunization</b>	Female CF1xBalb/c F1 hybrid mice were immunized i.p. with immunogen.		
<b>Application</b>	<b>Method</b>	<b>Usability</b>	<b>References</b>
	ELISA	Yes	1, 4-5
	Immunoblotting	nd.	
	Immunofluorescence	nd.	
	Immunomicroarray	Yes	2
<b>References</b>	1) <b>L. Bruun, C. Koch, M.H. Jakobsen, B. Pedersen and J. Aamand</b> (2000). A quantitative enzyme-linked immunoassay for the detection of 2,6- dichlorobenzamide (BAM), a degradation product of the herbicide dichlobenil. <i>Journal of Immunological Methods</i> . 240, 133-142. 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. 3) <b>Sprengel SR, Holtze MS, Simonsen A, Aamand J.</b> Degradation and mineralization of nanomolar concentrations of the herbicide dichlobenil and its persistent metabolite 2,6-dichlorobenzamide by <i>Aminobacter</i> spp. isolated from dichlobenil-treated soils. <i>Appl Environ Microbiol</i> . 2007 Jan;73(2):399-406. Epub 2006 Nov 17. 4) <b>Bache M, Taboryski R, Schmid S, Aamand J, Jakobsen MH.</b> Investigations on antibody binding to a micro-cantilever coated with a BAM pesticide residue. <i>Nanoscale Res Lett</i> . 2011 May 16;6(1):386. 5) <b>Uthuppu B, Aamand J, Jørgensen C, Kiersgaard SM, Kostesha N, Jakobsen MH.</b> Optimization of an immunoassay of 2,6-dichlorobenzamide (BAM) and development of regenerative surfaces by immunosorbent modification with newly synthesised BAM hapten library. <i>nal Chim Acta</i> . 2012 Oct 20;748:95-103. doi: 10.1016/j.aca.2012.08.047. Epub 2012 Sep 4.		

### Conditions

For research use only. Not for use in diagnostic procedures. Not for therapeutic use or applications.

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