PRODUCT SPECIFICATION

STATENS SERUM INSTITUT

HYB 266-02 Anti Simazine/atrazine

Mouse monoclonal antibody

Article No.	48801 (0.2 mL), 101068 (1.0 mL)
Product Name	HYB 266-02 Anti Simazine/atrazine
Clone	4D6
Subclass	IgG1 / kappa
Description	**Preparation:** Protein-A purified **Concentration:** 1 mg/mL ± 10%, based on A_{280}. See Certificate of Analysis for details. **Solvent:** PBS, pH 7.2 – 7.4 **Storage:** -18 °C or colder
Antigen	The pesticides (herbicides) simazine and atrazine.
Immunogen	Simazine-derivative coupled to carrier protein (1).
Specificity	Cross-reactivities below 24% were found for terbuthylazine, desethylterbuthylazine and desisopropylatrazine (1). The antibody has not yet been tested against propazine.
Reactivity	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.
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	References
ELISA	Yes	1
Immunoblotting	nd.	
Immunofluorescence	nd.	
Immunomicroarray	Yes	2

References

1) **L. Bruun, C. Koch, M. Jakobsen, B. Pedersen, M. Christiansen and J. Aamand** (2001). Characterisation of antibodies raised against different triazine structures. Analytica Chimica Acta 436, 87-101.

2) **E. Belleville , M. Dufva , J. Aamand , L. Bruun , L. Clausen and C. B. V. Christensen** (2004) Quantitative microarray pesticide analysis, Journal of Immunological Methods. 286 (1-2), 219-229.

Conditions

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

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