## Monoclonal Antibody J2

Description	J2 monoclonal antibody (mAb), mouse, IgG2a, kappa chain	
Lot Nr.	J2-1303	<b>Amount:</b> 200 μg
	J2-1303	<b>Amount:</b> 500 μg
Concentration after reconstitution	<b>1.00</b> mg/ml as determined as determined by $A_{280 nm}$ (A280 nm = 1.47 corresponds to 1 mg/ml antibody) gel electrophoretically pure IgG antibody.	
Reconstitution	The lyophilised sample should be reconstituted with:	
	<b>200 µl</b> sterile distilled water for 200µg antibody	
	<b>500</b> $\mu$ l sterile distilled water for 500 $\mu$ g antibody.	
	The mAb will then be in PBS without any stabilisers or preservatives at the concentration given. As a result of the lyophilisation procedure, the reconstituted antibody may contain small amounts of denatured protein in the form of aggregates that may interfere with some applications such as immunohistochemistry (e.g. by giving high backgrounds). We therefore highly recommend centrifuging (microcentrifuge) the reconstituted antibody before use and using the supernatant.	
Specificity	The mAb J2 recognises double-stranded RNA (dsRNA) provided that the length of the helix is greater than or equal to 40 bp. dsRNA-recognition is independent of the sequence and nucleotide composition of the antigen. All naturally occurring dsRNAs investigated up to now (40-50 species) as well as poly(I)·poly(C) and poly(A)·poly(U) have been recognised by J2, although in some assays its affinity to poly(I)·poly(C) is about 10 times lower than that to other dsRNA antigens.	
Applications	mAb J2 can be immunoaffinity chro immunohistochemistr	matography and in certain systems also for
	Please note that nucleic acid separation prior to dsRNA-immunoblotting must be carried out by polyacrylamide gel electrophoresis, because the sensitivity of detection is considerably lower after blotting from agarose gels.	
	Not for use for clinical purposes. For <i>in vitro</i> use only.	
Stability and storage		
	After reconstitution antibodies should be aliquoted and stored at -20 °C or -70 °C.	
	After adding 10 mM sodium azide undiluted antibody can also be stored	

After adding 10 mM sodium azide undiluted antibody can also be stored at +4 °C for a short period of time. For long term storage the mAb should be kept frozen. Repeated freezing/thawing cycles should be avoided. Oxford.

## References Schönborn, J., Oberstrass, J., Breyel, E., Tittgen, J., Schumacher, J. and Lukacs, N. (1991) Monoclonal antibodies to double-stranded RNA as probes of RNA structure in crude nucleic acid extracts. Nucleic Acids Res.19, 2993-3000. Lukacs, N. (1994) Detection of virus infection in plants and differentiation between coexisting viruses by monoclonal antibodies to double-stranded RNA. J. Virol. Methods 47, 255-272. Lukacs, N. (1997) Detection of sense:antisense duplexes by structure-specific anti-RNA antibodies. In: Antisense Technology. A Practical Approach, C. Lichtenstein amd W. Nellen (eds), pp. 281-295. IRL Press,

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