

## Monoclonal Antibody J2

<b>Description</b>	J2 monoclonal antibody (mAB), mouse, IgG2a, kappa chain 650 µg
<b>Lot Nr.</b>	<b>J2-041</b> <b>Amount:</b> 650 µg
<b>Concentration after reconstitution</b>	<b>2,2 mg/ml</b> as determined by Bradford gel electrophoretically pure IgG antibody
<b>Reconstitution</b>	The lyophilised sample should be reconstituted with 300 µl sterile distilled water.  The mAB will then be in PBS without any stabilisers or preservatives.
<b>Specificity</b>	The mAB J2 recognises double-stranded RNA (dsRNA) provided that the length of the helix is $\geq 40$ 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.
<b>Applications</b>	mAB J2 can be used for ELISA, dsRNA-immunoblotting, immunaffinity chromatography and in certain systems also for immunohistochemistry (see references).  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.
<b>Stability and storage</b>	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 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.
<b>References</b>	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. <i>Nucleic Acids Res.</i> 19, 2993-3000.  Lukacs, N. (1994) Detection of virus infection in plants and differentiation between coexisting viruses by monoclonal antibodies to double-stranded RNA. <i>J. Virol. Methods</i> 47, 255-272.  Lukacs, N. (1997) Detection of sense:antisense duplexes by structure-specific anti-RNA antibodies. In: <i>Antisense Technology. A Practical Approach</i> , C. Lichtenstein and W. Nellen (eds), pp. 281-295. IRL Press, Oxford.