

Monoclonal Antibody K2

Description	K2 monoclonal antibody (mAb), mouse, IgM, kappa chain
Lot Nr.	K2-0801
Concentration	Undiluted hybridoma supernatant
Supply	We only supply this antibody in the form of frozen supernatant in RPMI, 5% FCS culture medium
Specificity	The mAb K2 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 K2. As described by Schönborn et al. K2 binds with high avidity to all dsRNAs, investigated.
Applications	<p>mAb K2 is primarily used for a sandwich ELISA to detect and quantitate (after calibration) dsRNA (see Schönborn et al.). For this application it should be diluted 1:2 with PBS.</p> <p>It may also be advantageous to use K2 for immunofluorescence studies.</p> <p>Not for use for clinical purposes. For <i>in vitro</i> use only.</p>
Stability and storage	<p>After delivery antibodies should be aliquoted and stored at -70 °C.</p> <p>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.</p>
References	<p>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.</p> <p>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.</p> <p>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.</p>

When referring to this antibody in a publication, please cite „K2“ from “English and Scientific Consulting, Hungary”. You may also include our weblink (<http://www.scicons.eu>).