

Mouse double-stranded RNA (K2) Monoclonal Antibody

Mouse anti double-stranded RNA (K2)

CATALOG # AAA77710	HOST Mouse	REACTIVITY double-stranded RNA	APPLICATIONS Immunofluorescence, ELISA
------------------------------	----------------------	--	--

PRODUCT SYNONYMS

double-stranded RNA (K2); Monoclonal Antibody; Mouse anti double-stranded RNA (K2); Mouse anti dsRNA; anti-double-stranded RNA (K2) antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	double-stranded RNA
Clonality	Monoclonal
Isotype	IgM kappa
Clone Number	K2
Form/Format	Culture supernatant (RPMI, 5% fetal calf serum) No preservative is added.
Concentration	Undiluted hybridoma supernatant (varies by lot)
Applicable Applications for anti-double-stranded RNA (K2) antibody	IF (Immunofluorescence), ELISA
Source	Female DBA/2 mice were injected intraperitoneally with a mixture of 50ug L-dsRNA and 75ug methylated bovine serum albumin, emulsified in complete Freund's adjuvant. After several boosts spleen cells were fused with Sp2/0-Agl4 myeloma cells to generate the hybridoma clone.
Preparation and Storage	After delivery antibodies should be aliquoted and stored at -20 degree or -70 degree C. After adding 10mM sodium azide undiluted antibody can also be stored at +4 degree C for a short period of time. For long term storage the mAb should be kept frozen. Repeated freezing/thawing cycles should be avoided. The IgM monoclonal antibody K2 is only sold as hybridoma supernatant which is stored frozen and shipped on ice.

ADDITIONAL INFORMATION

Related Product Information for anti-double-stranded RNA (K2) antibody	Background: This product is part of the SCICONS™ product line which offers the gold standard in anti-dsRNA antibodies. Over the past decade our double-stranded RNA (dsRNA)antibodies have been used extensively to detect and characterise plant and animal viruses with dsRNA genomes or intermediates. In addition, the anti-dsRNA antibodies can be used as a test tool to detect pathogens, including detection in paraffin-embedded fixed tissue samples (Richardson et al. 2010). K2 anti-dsRNA monoclonal antibody has an IgM isotype. K2 has primarily been used in ELISA and sandwich ELISA. Generally, K2 can be used in applications where an anti-dsRNA antibody with an isotype other than IgG (IgG2a) is required.
Product Categories/Family for anti-double-stranded RNA (K2) antibody	Primary antibodies , Microbiology

References

- 1) Schonborn, 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.
- 2) 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.
- 3) Lukacs, N. (1997) Detection of sense: antisense duplexes by structurespecific anti-RNA antibodies. In: *Antisense Technology. A Practical Approach*, C. Lichtenstein and W. Nellen (eds), pp. 281-295. IRL Press, Oxford.
- 4) S. J. Richardson, A. Willcox, D. A. Hilton, S. Tauriainen, H. Hyoty, A. J. Bone, A. K. Foulis, N. G. Morgan. Use of antisera directed against dsRNA to detect viral infections in formalin-fixed paraffin-embedded tissue. *J Clin Virol.* (2010) 49(3); 180-5. doi: 10.1016/j.jcv.2010.07.015.
- 5) Levican-Asenjo J, Soto-Rifo R, Aguayo F, Gaggero A, Leon O. Salmon cells SHK-1 internalize infectious pancreatic necrosis virus by macropinocytosis. *J Fish Dis.* 2019 Jul;42(7):1035-1046. doi: 10.1111/jfd.13009.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/double-stranded-rna-k2-antibody-clone-k2-immunofluorescence-elisa/77710>