

Datasheet: MCA6391

Description:	MOUSE ANTI DNA-RNA HYBRID
Specificity:	DNA-RNA HYBRID
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	S9.6
Isotype:	IgG2a
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunoblotting	▪			1 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Broad
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.035% Sodium Azide (NaN ₃) 30% Glycerol
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Specificity	Mouse anti DNA-RNA hybrid antibody, clone S9.6 recognizes DNA-RNA hybrids.

DNA-RNA hybrids, also known as R-loops occur naturally in eukaryotic cells as a result of non-covalent sequence-specific interaction between two or more complementary strands of nucleic acids into a single complex. Hybridization influences genomic instability and is particularly prevalent at sites which have high levels of transcriptional activity ([Rich, 2006](#)).

Mouse anti DNA-RNA hybrid antibody can be used for the detection of DNA-RNA hybridization in microarray assays.

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- References**
1. Gibbons, H.R. & Aune, T.M. (2020) Immunoprecipitation of DNA:RNA Hybrids Using the S9.6 Antibody. [Methods Mol Biol. 2161: 195-207.](#)
 2. Smolka, J.A. *et al.* (2021) Recognition of RNA by the S9.6 antibody creates pervasive artifacts when imaging RNA:DNA hybrids. [J Cell Biol. 220 \(6\): e202004079.](#)

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- Further Reading**
1. Bou-Nader, C. *et al.* (2022) Structural basis of R-loop recognition by the S9.6 monoclonal antibody. [Nat Commun. 13 \(1\): 1641.](#)

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10049 available at: <https://www.bio-rad-antibodies.com/SDS/MCA639110049>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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|---|---|
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Rabbit Anti Mouse IgG (STAR8...) | DyLight@800 |
| Human Anti Mouse IgG2a (HCA037...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos. , HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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