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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-single-stranded poly(rI) RNA [Jel 103] Standard Size Ab00800-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: Jel 103

Alternative Name(s) of Target: polyriboinosinic acid; single stranded RNA; single-stranded RNA; inosine

UniProt Accession Number of Target Protein:

Published Application(s): SPRIA, IF

Published Species Reactivity: Species independent

Immunogen: Jel 103 was selected from a hybridoma cell line generated by the fusion of the MOPC 315-43 myeloma cell line with mouse spleen cells derived from C57/B1 mice which had been immunized with poly(rI)poly(dC) duplex complexed to methylated bovine serum albumin.

Specificity: Jel 103 is highly specific for single-stranded RNA and shows sequence specificity as it binds to poly(rI) but not to poly(dI), poly(rG) or to any other homopolymer - it does not bind randomly to calf thymus DNA. Jel 103 Fab is shown to form base stacking interactions with a Tyr residue and two salt-bridge interactions to the phosphate backbone with Lys and Arg residues.

Application Notes: Jel 301 can be used for the detection of single-stranded poly(rI) and for binding studies where the antibody has been used previously in solid-phase radioimmunoassays.

Antibody First Published in: Pokkuluri et al. Preparation, characterization and crystallization of an antibody Fab fragment that recognizes RNA. Crystal structures of native Fab and three Fab-mononucleotide complexes. J Mol Biol. 1994 Oct 21;243(2):283-97. [PMID:7523684](#)

Note on publication: Describes the generation of jel 301 fab fragment and the structures of the fab in complex with rIP, rGDP and dIMP are reported.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.