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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-RNA hairpin [BL3-6S97N] Standard Size Ab03300-10.29

This is a Fab fragment with His tag.

Isotype and Format: Human Fab fragment, His-Tagged, Kappa

Clone Number: BL3-6S97N

Alternative Name(s) of Target:

UniProt Accession Number of Target Protein:

Published Application(s): crystallization

Published Species Reactivity: Species independent

Immunogen: A library of Fabs was generated by rationally varying the composition of the residues in complementarity determining regions (CDRs) of Fab BL3-6. Subsequently, the Fab library was challenged in a phage display selection to recognize and bind the GAAACAC motif.

Specificity: The antibody binds to the RNA hairpins GAAACAC hairpin. An RNA hairpin is an essential secondary structure of RNA. It can guide RNA folding, determine interactions in a ribozyme, protect messenger RNA (mRNA) from degradation, serve as a recognition motif for RNA binding proteins or act as a substrate for enzymatic reactions.

Application Notes: The Fab was generated by directed mutagenesis from the parental Fab BL3-6. The S97N mutation in complementarity determining region L3 of the Fab improved the binding affinity compared to the parent Fab BL3-6 ($K_d = 5$ nM). The Fab fragment also bound to the affinity matured GAGACCC hairpin. The crystal structure of the Spinach RNA grafted with GAAACAC loop in complex with Fab BL3-6S97N was determined (Koirala et al., 2018; PMID: 29309709).

Antibody First Published in: Koirala et al. Affinity maturation of a portable Fab-RNA module for chaperone-assisted RNA crystallography *Nucleic Acids Res.* 2018 Mar 16;46(5):2624-2635. [PMID:29309709](#)

Note on publication: The original paper describes the use of Fab fragment as chaperone for RNA crystallography.

Product Form

Size: 100 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

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.