SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Anti-RNA hairpin [BL3-6S97N] Bulk Size Ab03300-1.1-BT

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse Fab format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG1, 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 complimentarity determining region L3 of the Fab improved the binding affinity compared to the parent Fab BL3–6 (Kd= 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: 1 mg Purified antibody in bulk size.
Purification: Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4^{o}C for up to 3 months. Note, this antibody is provided without

added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.
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.