



# 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

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## Anti-envelope protein [ZIKVEF3S06] Bulk Size Ab03414-23.0-BT

This full-length chimeric rabbit antibody was made using the variable domain sequences of the original Chicken scFv format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Rabbit IgG, Lambda

**Clone Number:** ZIKVEF3S06

**Alternative Name(s) of Target:** ZIKV envelope protein; E protein

**UniProt Accession Number of Target Protein:**

**Published Application(s):** in vitro inhibition, WB, ELISA, FC

**Published Species Reactivity:** Zika Virus

**Immunogen:** The original antibody was generated by immunizing chicken with ZIKV envelope protein followed by antibody library construction and phage display-based selection.

**Specificity:** The antibody binds to the E protein of Zika virus. The envelope protein forms a dimer on the smooth surface of the mature virus, and participates in receptor binding and fusion to the host.

**Application Notes:** The specificity of the scFv format of the antibody was confirmed by ELISA analysis. The antibody detected the recombinant E protein by western blot analysis. The scFv format recognized the E protein in a transfected Vero cell by flow cytometry. Competitive inhibition assay was employed to calculate the percentage of inhibition and the dissociation constant of the antibody against the E protein (inhibition of 50% = 77.42 ug/mL and  $K_d = 4.55 \times 10^{-6}$  M). The antibody has diagnostic or therapeutic potential for ZIKV (PMID: 31940993).

**Antibody First Published in:** Mwale et al. Expression, Purification, and Characterization of Anti-Zika virus Envelope Protein: Polyclonal and Chicken-Derived Single Chain Variable Fragment Antibodies Int J Mol Sci. 2020 Jan; 21(2): 492. [PMID:31940993](#)

**Note on publication:** The paper describes the generation and characterization of a panel of antibodies against the E protein of Zika virus.

### Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:**

PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.