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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-envelope protein [ZIKVEF2L01] Standard Size Ab03413-23.0

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: ZIKVEF2L01

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% = 0.55 µg/mL and $K_d = 2.04 \times 10^{-8}$ M). Therefore, 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: 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.