Anti-NS1 [D6] Standard Size Ab03030-23.159

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

Isotype and Format: Rabbit IgG-Fc fusion
Clone Number: D6
Alternative Name(s) of Target: Nonstructural protein 1; Zika NS1; ZVNS1; NbD6
UniProt Accession Number of Target Protein:
Published Application(s): ELISA
Published Species Reactivity: Zika Virus
Immunogen: The antibody was generated by immunizing a llama with Zika NS1 protein, followed by antibody library construction and phage display-based selection.
Specificity: The antibody binds to the NS1 protein of Zika virus. The antibody did not cross-reacted with the NS1 protein of other flaviviruses, such as Yellow fever, Dengue type 1, West Nile, and Saint Louis viruses.
Application Notes: This antibody can be used to specifically detect the Zika virus as it is not cross-reactive with other Flaviviridae. The specificity of this antibody (VHH) was confirmed by ELISA analysis. Furthermore, the antibody was employed in sandwich ELISA as the capture antibody, where it was used in a matched pair in conjunction with 32. The sandwich ELISA accurately detected Zika virus NS1 protein in different serum samples in the low-ng/mL range (Delfin-Riela et al, 2020; pmid:33317184).
Antibody First Published in: Delfin-Riela et al. Highly Sensitive Detection of Zika Virus Nonstructural Protein 1 in Serum Samples by a Two-Site Nanobody ELISA Biomolecules. 2020 Dec 9;10(12):1652. PMID:33317184
Note on publication: The paper describes the generation and characterization of the antibody, which is specific for Zika virus NS1 protein.

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^{o}C for up to 3 months. 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.