Anti-ZIKV soluble envelope protein [z23] Standard Size Ab00906-13.12

This reformatted human antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG4-S228P, Kappa
Clone Number: z23
Alternative Name(s) of Target: sE; ZIKV
UniProt Accession Number of Target Protein:
Published Application(s): Block
Published Species Reactivity: Zika Virus
Immunogen: This antibody was derived from memory B cells specific for purified monomeric Zika virus soluble envelope protein, which were isolated by FACS from the blood of a patient 20 days post-infection with zika virus. To generate full-length monoclonal antibodies, the variable regions were then cloned into human IgG1 constant region.
Specificity: This antibody bind a tertiary epitope in the zika virus soluble envelope protein domain III.
Application Notes: This antibody specifically and potently neutralises Zika virus in vitro, and does not cross-react with strains 1 - 4 of dengue virus, which minimises the risk of antibody-dependent enhancement (Wang et al, 2016). In a murine model, this antibody confers postexposure protection against Zika virus (Wang et al, 2016).
Antibody First Published in: Wang et al. Molecular determinants of human neutralizing antibodies isolated from a patient infected with Zika virus Science Translational Medicine, December 14, 2016, Vol.8(369), p.369ra179 PMID:27974667
Note on publication: Describes the original generation and characterisation of this antibody.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC 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.