

## Anti-ZIKV soluble envelope protein [z23] Standard Size Ab00906-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

**Isotype and Format:** Human IgG1, Fc Silent™, 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 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.