

## Anti-ZIKV E domain II [SMZAb2] Standard Size Ab01255-23.0

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

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

**Clone Number:** SMZAb2

**Alternative Name(s) of Target:** ZEDII

**UniProt Accession Number of Target Protein:** Q91KX7

**Published Application(s):** neutralisation assays, therapeutic, ELISA

**Published Species Reactivity:** Zika Virus

**Immunogen:** Antibody genes were cloned from blood-derived plasmablasts of a ZIKV-infected human subject from Colombia in the acute phase. Amplified heavy and light chains were tested for neutralisation, and SMZAb2 was selected from this.

**Specificity:** SMZAb2 binds to domain II of the ZIKV E protein. This is distinct to the binding site of SMZAb5 and SMZAb1.

**Application Notes:** ELISA was used to confirm SMZAb2 binds to the ZIKV E domain, and neutralisation assays identified the IC<sub>50</sub> of SMZAb2 as 189 ng/ml. Four macaques were injected with a cocktail of anti-Zika antibodies (SMZAb1, SMZAb2, SMZAb5) and then infected with ZIKV virus. The antibody cocktail appeared to confer sterilising immunity on the treated macaques and completely prevented viral replication, which was not seen with the control group (Magnani et al, 2017).

**Antibody First Published in:** Magnani et al, 2017. Neutralizing human monoclonal antibodies prevent Zika virus infection in macaques Sci Transl Med. 2017 Oct 4;9(410). pii: eaan8184 [PMID:28978754](#)

**Note on publication:** Describes the isolation of SMZAb2, its characterisation through ELISA and neutralisation assays, and its efficacy in preventing ZIKV viral replication.

## 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.