

## Anti-Envelope protein (soluble) [Z3L1] Bulk size

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**Description:** Recombinant monoclonal antibody to Envelope protein (soluble). Manufactured using AbAb's Recombinant Platform with variable regions (i.e. specificity) from the B-cell clone Z3L1.

**Isotype and Format:** Human IgG4-P, lambda

**Clone Number:** Z3L1

**UniProt Accession Number of Target Protein:**

**Published Application(s):** NTRL; crystallisation; ELISA; FC; SPR

**Published Species Reactivity:** Zika virus

**Immunogen:** Anti-ZIKV mAbs were obtained from the sera and peripheral blood mononuclear cells of a ZIKV-infected patient.

**Specificity:** Z3L1 binds to the ZIKV soluble envelope (sE) protein, shown using SPR, kinetic competition assays and crystallography (Wang et al, 2016). This mAb is highly specific for ZIKV, and was shown to exhibit no neutralisation activity against DENV-1 to DENV-4 virions, which are highly related to ZIKV. It was shown crystallographically that the Z3L1 Fab region binds to domain I and domain II of sE. ZIKV has recently become a major global health concern, following a 2015 outbreak. Viral infection is associated with neurological complications and microencephaly.

**Antibody First Published in:**

Wang et al. Sci Transl Med. 2016 Dec 14;8(369):369ra179. [PMID:27974667](#) **Note on publication:**

Describes the identification of several anti-ZIKV mAbs from the blood of a patient with ZIKV infection. The mAbs identified were characterised for antigen specificity using biochemical and biophysical methods, and a few of the mAbs found were crystallised with the ZIKV sE protein.

## Product Form

This is a Bulk size product. Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied in:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** See vial label

**Product Code:** Ab00940-13.12-BT

## Human IgG4-P

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.