

Anti-Neutralizing Epitope [ZKA185] Standard Size Ab00835-15.0

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer. Made with Antibody Sequences licensed from Humabs Biomed SA.

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 IgM, Lambda

Clone Number: ZKA185

Alternative Name(s) of Target: EDE epitope; Neutralizing Non Binder; EDE region; E-dimer dependent region

UniProt Accession Number of Target Protein:

Published Application(s): NTRL

Published Species Reactivity: Zika Virus

Immunogen: mAb ZKA185 was selected from EBV-immortalized memory B cells derived from ZIKV-infected, DENV-naïve human donors based on its ability to neutralize ZIKV infection.

Specificity: This antibody is able to specifically neutralize Zika virus, however it does not react with recombinant envelope protein (E-protein) or EDIII. As a result ZKA185 has been named a "Neutralizing Non-Binder" (NNB) . NNBs interact with quarternary epitopes displayed on infectious virions but not soluble proteins. It is suspected that the epitope ZKA185 lies within the the EDE region (i.e. the E-dimer dependent region), however research into this is still ongoing. No neutralization of or binding to Dengue virus could be detected.

Application Notes: This antibody, in the form of a human IgG1, has been shown to specifically neutralize Zika virus in vitro (strains tested: H/PF/2013 &MR766).

Antibody First Published in: Stettler et al. Specificity, cross-reactivity, and function of antibodies elicited by Zika virus infection. Science. 2016 Aug 19;353(6301):823-6 [PMID:27417494](#)

Note on publication: Describes the generation and characterisation of this antibody. Please consult supplementary materials of this publication for details.

Product Form

Size: 50 µg Purified antibody.

Purification: Affinity Purified using a recombinant lectin column

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.