

Anti-Envelope protein [ZKA64] Bulk size

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Description: Recombinant monoclonal antibody to Envelope protein. Manufactured using AbAb's Recombinant Platform with variable regions (i.e. specificity) from the EBV transformed human B cell clone ZKA64.

Isotype and Format: Mouse IgG2a,

Clone Number: ZKA64

UniProt Accession Number of Target Protein:

Published Application(s): NTRL; enhance; FC; ELISA

Published Species Reactivity: Zika Virus

Immunogen: mAb ZKA64 was selected from EBV-immortalized memory B cells derived from ZIKV-infected, DENV-naïve human donors based on its ability to bind Zika virus (ZIKV) E protein and to neutralize ZIKV infection.

Specificity: ZKA64 binds specifically to the EDIII domain of the ZIKV envelope (E) protein. It does not cross-react with DENV E protein. Flavivirus E proteins mediate fusion, with EDIII being specifically involved in binding to cellular receptors. The ZIKV E protein has homology to that in Dengue virus (DENV) as well as other flaviviruses such as yellow fever and west nile. ZIKV is a flavivirus that can be transmitted sexually, by the Aedes mosquito vector, or vertically to a developing fetus. Most cases of ZIKV infection are asymptomatic or manifest in mild symptoms, but in some cases ZIKV infection can result in Guillain-Barré Syndrome or congenital birth defects in developing fetuses.

Antibody First Published in:

Stettler et al. Science. 2016 Jul 14. pii: aaf8505. [PMID:27417494](#) **Note on publication:** Describes the isolation of a panel of antibodies derived from ZIKV-infected, DENV-naïve and ZIKV-infected, DENV-immune human donors. They were tested for their ability to bind to Zika E protein or NS1 as well as their cross-reactivity with the homologs in DENV. The capability to neutralize ZIKV infection was studied as well as the antibody-dependent enhancement effect on infection.

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: Ab00779-2.3-BT

Mouse IgG2a

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