

InVivoMAb anti-West Nile/dengue virus E protein

Lot Specific Information

Lot Number:	Lot Specific*
Volume:	Lot Specific*
Concentration:	Lot Specific* (generally 4 to 11 mg/ml) *
Total Protein:	Lot Specific*

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number:	BE0325
Clone:	E60
Isotype:	Mouse IgG2a, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG2a isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Purified soluble WNV E protein
Reported Applications:	Neutralization of WNV Neutralization of DENV1,2,3,4
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<2EU/mg (<0.002EU/ μ g) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 μ M filtered
Production:	Purified from tissue culture supernatant in an animal free facility
Purification:	Protein A
RRID:	AB_2819052
Molecular Weight:	150 kDa

Description

The E60 monoclonal antibody reacts with West Nile virus (WNV) and dengue virus (DENV) envelope (E) protein. WNV and DENV are small, enveloped, single-stranded RNA viruses of the family Flaviviridae. The viral envelope of flaviviruses consists of multiple copies of the 50-60 kDa E protein and the 8 kDa M (membrane) protein. X-ray crystallography studies have revealed that the ectodomain of each E protein is comprised of three structural domains: DI, DII and DIII, connected by flexible hinges. The tip of the DII domain contains a conserved region termed the "fusion loop," which is required for membrane fusion of the viral envelope with the host cell membrane. The E60 antibody is a flavivirus cross-reactive neutralizing antibody that binds to an epitope in the fusion loop peptide of domain II on the E protein.

Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**

All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at bxcell.com/faqs.

Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit <https://bxcell.com/product/invivomab-anti-west-nile-dengue-virus-e-protein/#references> or scan the QR code below.

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