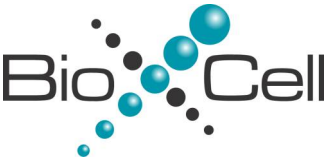
Technical Data Sheet

InVivoMAb anti-West Nile/dengue virus E protein



Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

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/µg) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 µm filtration
Production:	Purified from cell 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.

Storage

Store at the stock concentration at 4°C. **Do not freeze.**
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 https://bioxcell.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://bioxcell.com/catalogsearch/result/?q=BE0325#tab_references or scan the QR code below.

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