

**Datasheet for 600-401-FY8****West Nile Virus Matrix Antibody****Overview**

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|----------------------|-------------------------------------------------------------|
| <b>Description:</b>  | Anti-West Nile Virus Matrix (RABBIT) Antibody - 600-401-FY8 |
| <b>Item No.:</b>     | 600-401-FY8                                                 |
| <b>Size:</b>         | 100 µg                                                      |
| <b>Applications:</b> | ELISA                                                       |
| <b>Reactivity:</b>   | Virus                                                       |
| <b>Host Species:</b> | Rabbit                                                      |

**Product Details**

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| <b>Background:</b>   | West Nile Virus (WNV) is a member of the Flaviviridae, a plus-stranded virus family that includes St. Louis encephalitis virus, yellow fever virus, and Dengue virus. WNV was initially isolated in 1937 in the West Nile region of Uganda and has become prevalent in Africa, Asia, and Europe. It has rapidly spread across the United States with cases being observed in every continental state. Virus particles consist of a dense core made up of the core/capsid protein encapsulating the RNA genome surrounded by a membrane envelope embedded with envelope and matrix proteins. However, when the viruses are inside of infected cells, the matrix protein exists in its "pre-M" form as a heterodimer with the envelope proteins. Cleavage of the "pre-M" protein to its mature form occurs during release of the virus; this cleavage leads to the dissociation of the heterodimers. The WNV receptor has recently been identified as alpha v beta 3 integrin. |
| <b>Synonyms:</b>     | West Nile Virus Matrix Antibody, Genome polyprotein, Core protein, NS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Target Details**

|                        |                    |
|------------------------|--------------------|
| <b>Gene Name:</b>      | WNVgp1             |
| <b>Reactivity:</b>     | Virus              |
| <b>Immunogen Type:</b> | Conjugated Peptide |

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| <b>Immunogen:</b>          | Anti-West Nile virus matrix antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to 15 amino acids near the C-terminus of the West Nile virus matrix protein. |
| <b>Purity/Specificity:</b> | Anti-West Nile Virus Matrix Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with West Nile Virus Matrix from other sources has not been determined.                |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P06935</a></li><li>• <a href="#">GeneID - 912267</a></li><li>• <a href="#">NCBI - NP_776012</a></li></ul>                                                        |

## Application Details

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| <b>Tested Applications:</b> | ELISA                                                                                                                                                                                                                                        |
| <b>Application Note:</b>    | Anti-West Nile Virus Matrix Antibody has been tested for use in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 380 kDa in Western Blots of specific cell lysates and tissues. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                              |
| <b>ELISA:</b>               | User Optimized                                                                                                                                                                                                                               |

## Formulation

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|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 1 mg/mL by UV absorbance at 280 nm                      |
| <b>Buffer:</b>         | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.02% (w/v) Sodium Azide                                |
| <b>Stabilizer:</b>     | None                                                    |

## Shipping & Handling

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |

**Expiration:** Expiration date is one (1) year from date of receipt.

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## Disclaimer

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