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Datasheet for 600-401-FY7

West Nile Virus Matrix Antibody

Overview

Description:	Anti-West Nile Virus Matrix (RABBIT) Antibody - 600-401-FY7
Item No.:	600-401-FY7
Size:	100 µg
Applications:	ELISA
Reactivity:	Virus
Host Species:	Rabbit

Product Details

Background:	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 leas to the dissociation of the heterodimers. The WNV receptor has recently been identified as alpha v beta 3 integrin.
Synonyms:	West Nile Virus Matrix Antibody, Genome polyprotein, Core protein, NS1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	WNVgp1
Reactivity:	Virus
Immunogen Type:	Conjugated Peptide

Immunogen:	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 internal region of the west nile virus matrix precursor protein.
Purity/Specificity:	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.
Relevant Links:	• UniProtKB - P06935 • GeneID - 912267 • NCBI - NP_776012

Application Details

Tested Applications:	ELISA
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized

Formulation

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

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

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