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Datasheet for 600-401-FZ4

WNV Core Antibody

Overview

Description:	Anti-WNV Core (RABBIT) Antibody - 600-401-FZ4
Item No.:	600-401-FZ4
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 which play a major role for WNV entry into target cells. The viral core protein is thought to contribute to the WNV-associated inflammation via apoptosis induced though the caspase-9 pathway as delivery of core gene delivery into the striatum of mouse brain and skeletal muscle resulted in cell death and inflammation.
Synonyms:	WNV Core 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-WNV Core antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to 15 amino acids near the N-terminus of the WNV Core protein.
Purity/Specificity:	Anti-WNV Core Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with WNV Core from other sources has not been determined.
Relevant Links:	• UniProtKB - P06935 • GeneID - 912267 • NCBI - NP_776012

Application Details

Tested Applications:	ELISA
Application Note:	Anti-WNV Core 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:	Dry Ice
Storage Condition:	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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