



# Magic™ Mouse Anti-WNV Monoclonal antibody, clone 18Z02 (DMAB-CS24363)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Specificity	West Nile Virus
Target	WNV
Immunogen	Inactivated West Nile virus.
Isotype	IgG
Source/Host	Mouse
Species Reactivity	WNV
Clone	18Z02
Conjugate	unconjugated
Applications	ELISA (Cap), LFIA
Format	Lyophilized
Size	10 µg, 100 µg, 1 mg
Buffer	1X Phosphate buffered saline, pH 7.4
Preservative	None
Storage	Store at -20°C to -80°C on receipt (up to 12 months). Avoid repeated freezing and thawing as this may denature the antibody.

## BACKGROUND

**Introduction**

West Nile virus (WNV) is a mosquito-borne zoonotic arbovirus belonging to the genus *Flavivirus* found in temperate and tropical regions of the world. The genetic material of WNV is a positivesense, ssRNA (11-12Kb); these genes encode 7 nonstructural proteins (NS1-5) and three structural proteins (C, M, E). The RNA strand is held within a nucleocapsid formed from 12-kDa protein blocks; the capsid is contained within a host-derived membrane altered by two viral glycoproteins. WNV infections produce antibodies to both SPs and NSPs of WNV. Preliminary diagnosis is often based on the patient's clinical symptoms, places and dates of travel, activities, and epidemiologic history of the infection's location. Definitive diagnosis of WNV is obtained through the detection of WNV-specific antibodies (IgM/IgG) by ELISA and PCR.

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**Keywords**

West Nile virus; WNV

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