



Anti-WNV Matrix Protein Polyclonal antibody (DPAB4220)

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

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to West Nile Virus Matrix Protein (CT).
Target	WNV Matrix Protein
Immunogen	Rabbit polyclonal WNV Matrix antibody was raised against a synthetic peptide corresponding to 15 amino acids near the middle of the WNV Matrix precursor protein.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	WNV
Purification	Affinity chromatography purified via peptide column.
Conjugate	Unconjugated
Applications	ELISA
Reconstitution	During shipment, small volumes of antibody will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µl or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tablet
Format	Antibody is supplied in PBS containing 0.02% sodium azide.
Preservative	0.02% Sodium Azide
Storage	Antibody can be stored at 4°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

BACKGROUND

Introduction	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.
Keywords	Blocking Peptide; Envelope protein; Envelope protein E; Genome polyprotein; Major envelope protein E; West Nile virus; West Nile Virus (E protein) peptide; West Nile Virus (E protein) protein; West Nile Virus M glycoprotein peptide; West Nile Virus preM protein; West Nile Virus Matrix Protein; WNV; WNV Matrix (CT); WNV Core protein (CT); WNV envelope protein; WNV Envelope protein (CT); WNV Matrix protein (IN); WNVgp1; Group IV; Flaviviridae; Flavivirus.