

## 12-8281: Anti-West Nile Virus Matrix (Intermediate Domain) (WNV Matrix)

**Clonality :** Polyclonal

### Description

**Specificity:** Rabbit Anti-West Nile Virus Matrix (WNV Matrix) recognizes an epitope in the intermediate domain of WNV Matrix. This polyclonal antibody was purified using affinity chromatography.

**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 (reviewed in 1). 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.<sup>1</sup> 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.<sup>2</sup> The WNV receptor has recently been identified as alpha v beta 3 integrin.<sup>3</sup>

### Product Info

<b>Amount :</b>	20µg / 0.1 mg
<b>Content :</b>	Concentration: 0.5 mg/ml Formulation: This polyclonal antibody is formulated in phosphate buffered saline (PBS) pH 7.4 containing 0.02% sodium azide as a preservative.
<b>Storage condition :</b>	This polyclonal antibody is stable for at least one week when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at -20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.