**Product datasheet**

**Anti-West Nile Virus preM antibody ab25888**

### 3 References

### Overview

**Product name**
Anti-West Nile Virus preM antibody

**Description**
Rabbit polyclonal to West Nile Virus preM

**Host species**
Rabbit

**Tested applications**
Suitable for: ELISA, ICC/IF, Functional Studies

**Species reactivity**
Reacts with West Nile Virus. Not yet tested in other species.

**Immunogen**
Synthetic peptide corresponding to 15 amino acids near the middle of the West Nile Virus Matrix precursor protein.

### Properties

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at +4°C.

**Storage buffer**
Preservative: 0.02% Sodium Azide
Constituents: PBS

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

### Applications

Our **Abpromise guarantee** covers the use of **ab25888** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abbreviations</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent dilution. This polyclonal antibody can be used for the detection of the WNV Matrix precursor protein in ELISA. It will detect 10 ng of free peptide at 1 µg/ml.</td>
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<tr>
<td>ICC/IF</td>
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<td>Use at an assay dependent dilution. PubMed: 17634508</td>
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<tr>
<td>Functional Studies</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 21697345</td>
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</table>
**Target**

**Relevance**

West Nile Virus is part of the flavivirus family, many of which are capable of causing serious illness in humans. The ssRNA + strand virus is enveloped and spherical with a diameter of 40-50 nm, similar to all flaviviruses. The virion of this virus is a nucleocapsid covered by a lipoprotein envelope. The envelope contains two proteins: the protein M and glycoprotein E. The nucleocapsid is a complex of protein C and mRNA. In immature particles, there are 60 icosahedrally organized trimeric spikes on the surface. Each spike consists of three heterodimers of envelope protein M precursor (prM) and envelope protein E. Inside cells, viral particles will contain a preM particle and E in a complex that matures through proteolytic cleavage and processing in the Golgi apparatus. WNV has three different effects on humans, the first is asymptomatic infection; the second is a mild febrile syndrome termed West Nile Fever; the third is a neuroinvasive disease termed West Nile meningitis or encephalitis. In infected individuals the ratio between the three states is roughly 110:30:1. The main route of human infection is through the bite of an infected mosquito.

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