

Product datasheet for **AR00156PU-N**

West Nile Virus Pre-M (N-term) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	West Nile Virus Pre-M Protein (N-term) recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Concentration:	lot specific
Purity:	95% pure (SDS-PAGE)
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Phosphate buffer, pH 7.5
Preparation:	Liquid purified protein
Applications:	ELISA. Western blot. Lateral flow.
Protein Description:	Recombinant West Nile Virus Pre-M Protein, N-terminal. N-terminal part of the Pre-M protein immunodominant region. Contains 6 histidines fusion sequence. Molecular weight approximately 20kDa. Reacts with human West Nile Virus positive serum.
Storage:	Store the protein undiluted at 2-8°C for one month or (in aliquots) at -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Synonyms:	pre M protein antibody, West Nile virus antibody, WNVgp1 antibody, Genome polyprotein antibody



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Summary:

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 icosaedrally 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.

Protein Families:

ELISA.
Western blot.
Lateral flow.