



Anti-WNV Envelope Protein monoclonal antibody, clone C858M (DMAB4517)

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

PRODUCT INFORMATION

Specificity	West Nile Virus (WNV) Envelope Protein. When tested by IFA, also reacts with JEV and TBE. Does not crossreact with SLE, YFV, DEN, EEE, WEE, POW, LAC and VEE.
Immunogen	Recombinant E protein
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	West nile virus
Clone	C858M
Affinity Constant	Not determined
Purification	90% pure. Protein A chromatography
Conjugate	Unconjugated
Applications	Suitable for use in ELISA and IFA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded
Format	Purified, Liquid
Concentration	100ug/ml (OD280nm, E0.1% = 1.3)
Size	1 mg
Buffer	0.01M PBS, pH 7.2

Preservative 0.1% Sodium Azide

Storage Upon receipt, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

BACKGROUND

Introduction

West Nile virus(WNV) is a virus of the family Flaviviridae. Part of the Japaneseencephalitis (JE) antigenic complex of viruses, it is found in both tropicaland temperate regions. It mainly infects birds, but is known to infecthumans, horses, dogs, cats, bats, chipmunks, skunks, squirrels, domesticamide rabbits, crows, robins,crocodiles and alligators. The main route ofhuman infection is through the bite of an infected mosquito. Approximately90% of West Nile Virus infections in humans are without any symptoms. Imagereconstructions and cryoelectron microscopy reveal a 45–50nm virioncovered with a relatively smooth protein surface. This structure is similarto the dengue fever virus; both belong to the genus Flavivirus within thefamily Flaviviridae. The genetic material of WNV is a positive-sense, singlestrand of RNA, which is between 11,000 and 12,000 nucleotides long; thesegenes encode seven non-structural proteins and three structural proteins. TheRNA strand is held within a nucleocapsid formed from 12 kDa protein blocks;the capsid is contained within a host-derived membrane altered by two viralglycoproteins. The viral envelope consists of envelope E and membrane Mproteins.

Keywords

Envelope protein;West Nile Virus Envelope Protein; Flaviviridae; Flavivirus; West Nile virus; Envelopeprotein; Envelope protein E; Genome polyprotein; Major envelope protein E;WNV envelope protein; WNVgp1
