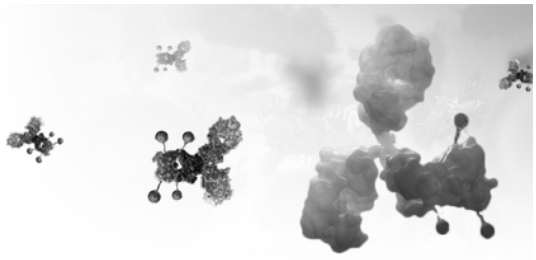

Anti-WNV Envelope Protein monoclonal antibody, clone C852M (DMAB4516)

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	C852M
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

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

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) isa virus of the family Flaviviridae. Part of the Japanese encephalitis (JE)antigenic complex of viruses, it is found in both tropical and temperateregions. It mainly infects birds, but is known to infect humans, horses,dogs, cats, bats, chipmunks, skunks, squirrels, domestic vamide rabbits,crows, robins,crocodiles and alligators. The main route of human infection isthrough the bite of an infected mosquito. Approximately 90% of West NileVirus infections in humans are without any symptoms. Image reconstructionsand cryoelectron microscopy reveal a 45–50nm virion covered with arelatively smooth protein surface. This structure is similar to the denguefever virus; both belong to the genus Flavivirus within the family Flaviviridae.The genetic material of WNV is a positive-sense, single strand of RNA, whichis between 11,000 and 12,000 nucleotides long; these genes encode sevennon-structural proteins and three structural proteins. The RNA strand is heldwithin a nucleocapsid formed from 12 kDa protein blocks; the capsid iscontained within a host-derived membrane altered by two viral glycoproteins. The viral envelope consists of envelope E and membraneM proteins.
Keywords	Envelope protein; West Nile Virus Envelope Protein; Flaviviridae; Flavivirus; West Nile virus; Envelope protein; Envelope protein E; Genome polyprotein; Major envelope protein E; WNV envelope protein; WNVgp1

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221