

Datasheet: AHP1666

Description:	RABBIT ANTI WNV CORE PROTEIN (C-TERMINAL)
Specificity:	WNV Core protein (C-Terminal)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1ug/ml
Western Blotting	▪			1ug/ml
Immunofluorescence	▪			20ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Viral
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human West Nile Virus core protein was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A peptide corresponding to an 15 amino acid sequence from near the carboxy terminus of West Nile Virus core protein.
External Database Links	UniProt: P06935 Related reagents Entrez Gene:

Specificity	Rabbit anti West Nile Virus antibody recognizes the ~14 kDa core protein of West Nile Virus (WNV). WNV belongs to the Flaviviridae family which includes closely viruses such as Dengue fever, Yellow fever and Tick borne encephalitis. West Nile Virus particles consist of a dense core made up of the core/capsid protein encapsulating the RNA genome surrounded by a membrane envelope containing envelope and matrix proteins. Research indicates that the viral core protein contributes to the WNV-associated inflammation via apoptosis induced through the caspase-9 pathway. West Nile Virus is spread by mosquitos and is believed to have originated in the West Nile region of Africa but has now spread to Europe, Asia and America where it has become a significant disease affecting human and domestic animal health.
Western Blotting	AHP1666 detects a band of approximately 14kDa in Transfected HeLa cell lysate
Further Reading	1. Gould, L.H. & Fikrig, E. (2004) West Nile virus: a growing concern? J Clin Invest. 113 (8): 1102-7. 2. Chu, J.J. <i>et al.</i> (2005) Inhibition of West Nile virus entry by using a recombinant domain III from the envelope glycoprotein. J Gen Virol. 86 (Pt 2): 405-12. 3. Chu, J.J. & Ng, M.L. (2004) Interaction of West Nile virus with alpha v beta 3 integrin mediates virus entry into cells. J Biol Chem. 279 (52): 54533-41. 4. Yang, J.S. <i>et al.</i> (2002) Induction of inflammation by West Nile virus capsid through the caspase-9 apoptotic pathway. Emerg Infect Dis. 8 (12): 1379-84.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin , FITC , HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800

Recommended Useful Reagents

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