

## Datasheet: HCA085

<b>Description:</b>	HUMAN ANTI WNV NS2B-NS3
<b>Specificity:</b>	WNV NS2B-NS3
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD05320
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	0.1 mg

## Product Details

**RRID** AB\_1605523

**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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/1000 - 1/10000
Immunoprecipitation			▪	
Western Blotting	▪			

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** A bivalent human recombinant Fab (kappa light chain) selected from the HuCAL® GOLD phage display library, expressed in *E. coli*. This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied liquid.

**Preparation** Metal chelate affinity chromatography

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.01% Thiomersal

**Approx. Protein Concentrations** Total protein concentration 0.5 mg/ml

**Immunogen** NS2B-NS3 proteinase from WNV expressed in *E.coli*

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**External Database Links**

**UniProt:**  
[P06935](#) [Related reagents](#)

**Entrez Gene:**  
[912267](#) WNVgp1 [Related reagents](#)

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**Specificity**

**Human anti WNV NS2B-NS3 antibody, clone AbD05320** recognizes the NS2B-NS3 proteinase from West Nile virus (WNV). West Nile virus is a member of the family *Flaviviridae* which in humans is transmitted via a mosquito vector resulting in central nervous damage. Non structural protein 3 (NS3) is a multifunctional protein, which is implicated in polyprotein processing and RNA replication. NS3 requires the presence of non-structural protein 2B (NS2B) cofactor to exhibit its proteolytic activity.

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**References**

1. Chernov, A.V. *et al.* (2008) The two-component NS2B-NS3 proteinase represses DNA unwinding activity of the West Nile virus NS3 helicase. [J Biol Chem. 283 \(25\): 17270-8.](#)
  2. Shiryayev, S.A. *et al.* (2010) Isolation and characterization of selective and potent human Fab inhibitors directed to the active-site region of the two-component NS2B-NS3 proteinase of West Nile virus. [Biochem J. 427 \(3\): 369-76.](#)
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**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.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. His-tag is a registered trademark of EMD Biosciences.

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**Health And Safety Information**

Material Safety Datasheet documentation #10094 available at:  
10094: <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

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**Licensed Use**

For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

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**Regulatory**

For research purposes only

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**Technical Advice**

Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

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## Related Products

### Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

Mouse Anti Human C-MYC (MCA2200...) [Alk. Phos.](#), [Biotin](#), [HRP](#)

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