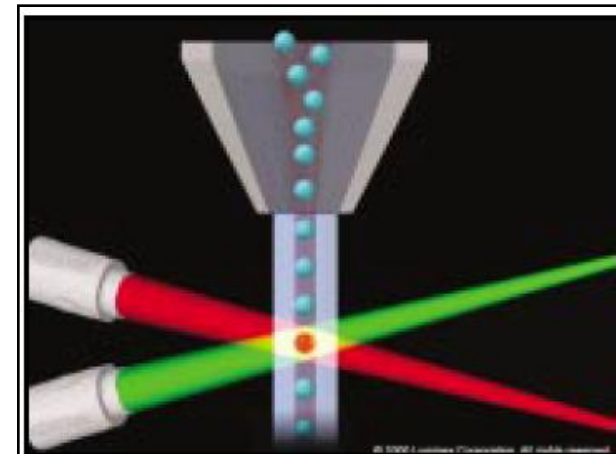


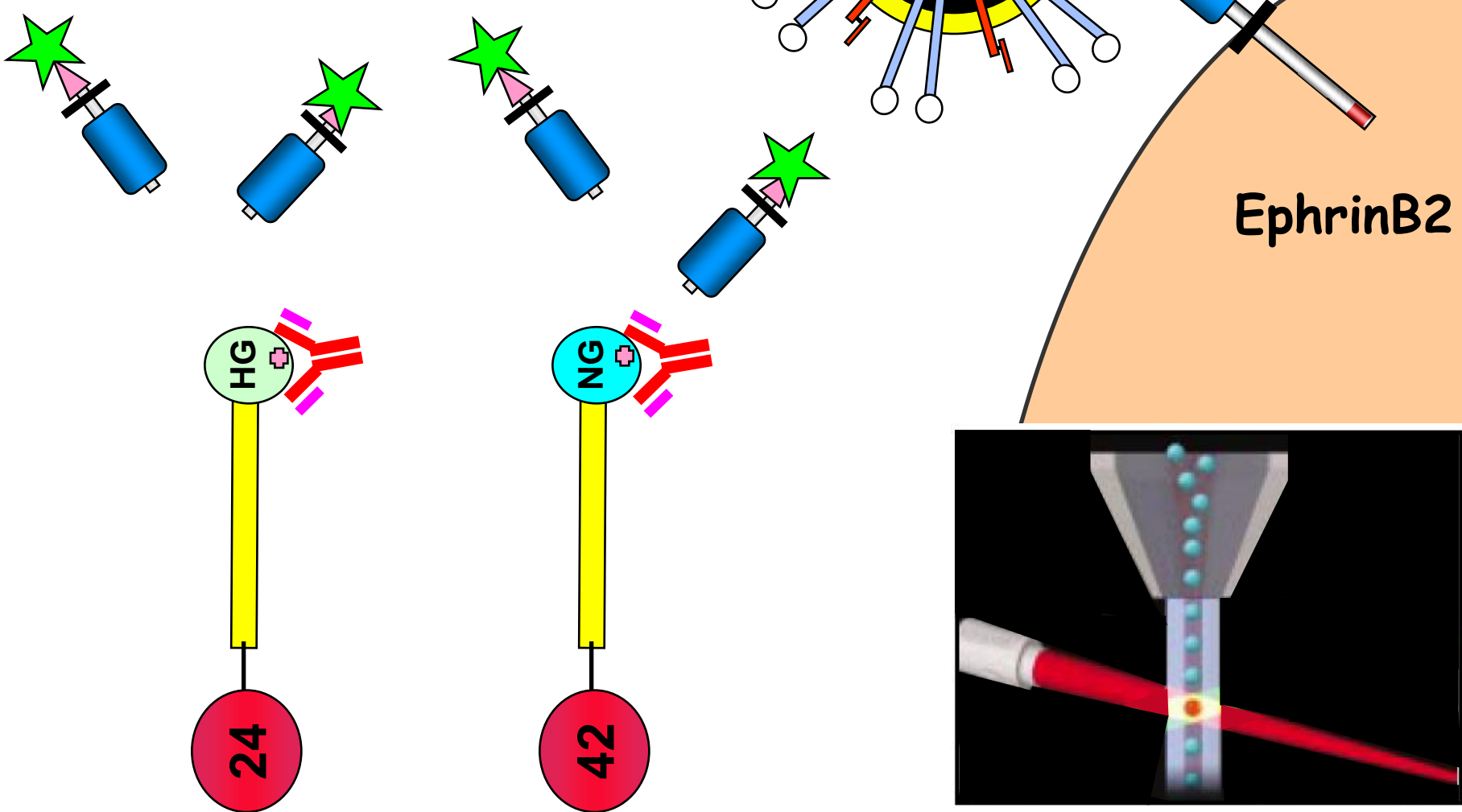
Add antiserum from infected animal

Add Biotinylated Protein A/G

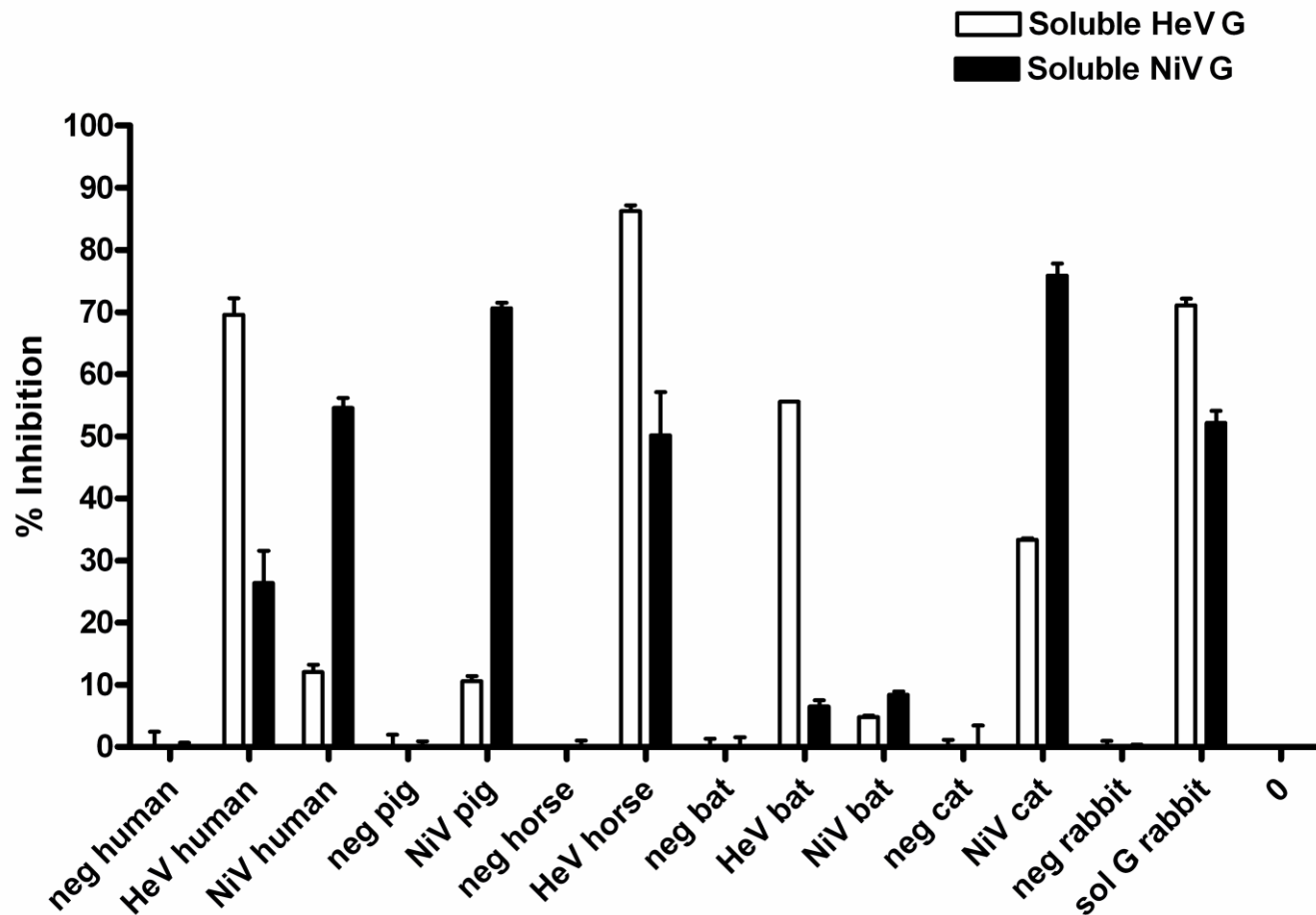
Streptavidin PE-conjugate



Surrogate Neutralization Assay



Inhibition by Ab of different species



sG subunit vaccine (cat study II)



All sG vaccinated animals were protected from Nipah virus induced disease following a 50,000 TCID₅₀ oronasal challenge

McEachern, J.A., Bingham, J., Crameri, G., Green, D.J., Hancock, T.J., Middleton, D., Feng, Y.R., Broder, C.C., Wang, L.F. and Bossart, K.N. **Vaccine**, 26:3842-52. 2008



Development of fully human monoclonal antibodies to Hendra and Nipah G glycoprotein

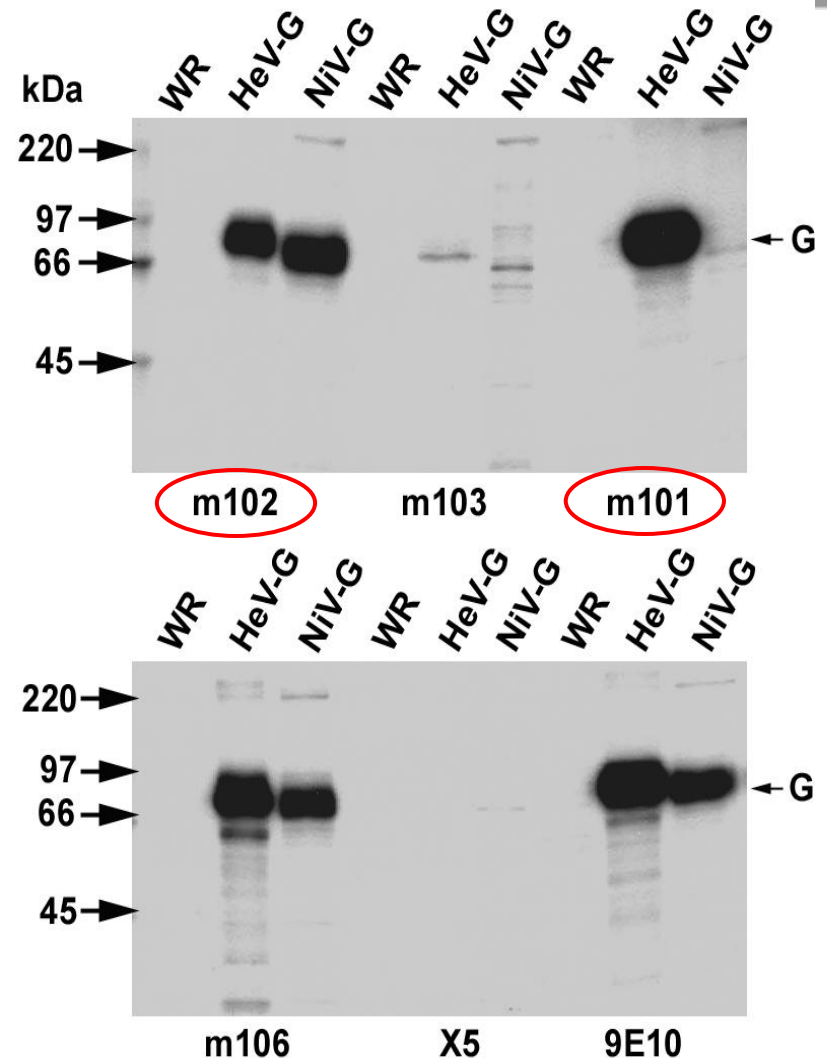
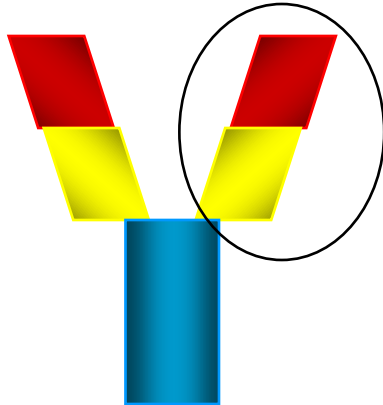


naive human antibody phage library

Fab



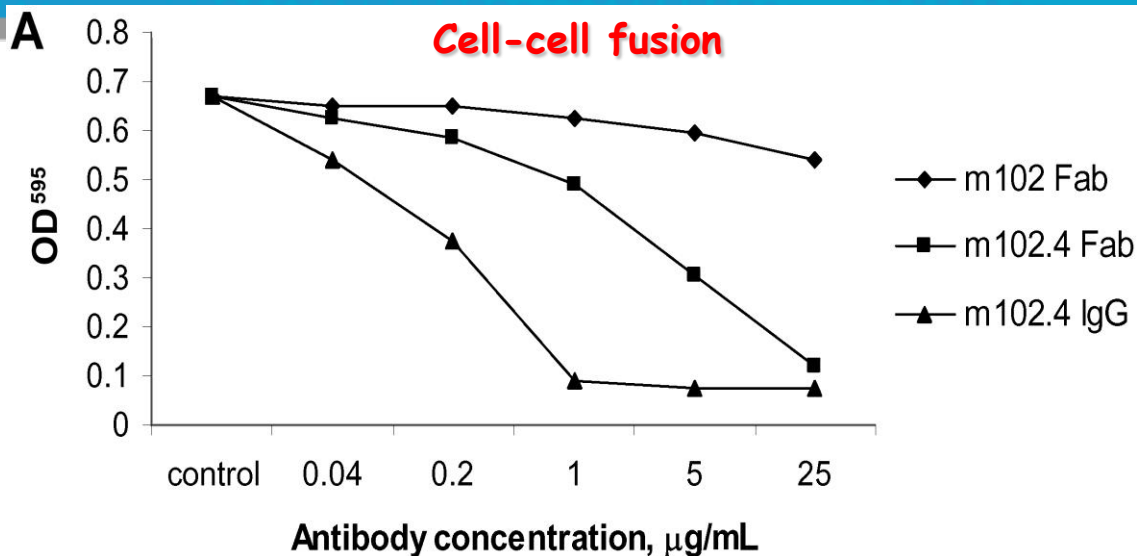
Antibody (IgG)



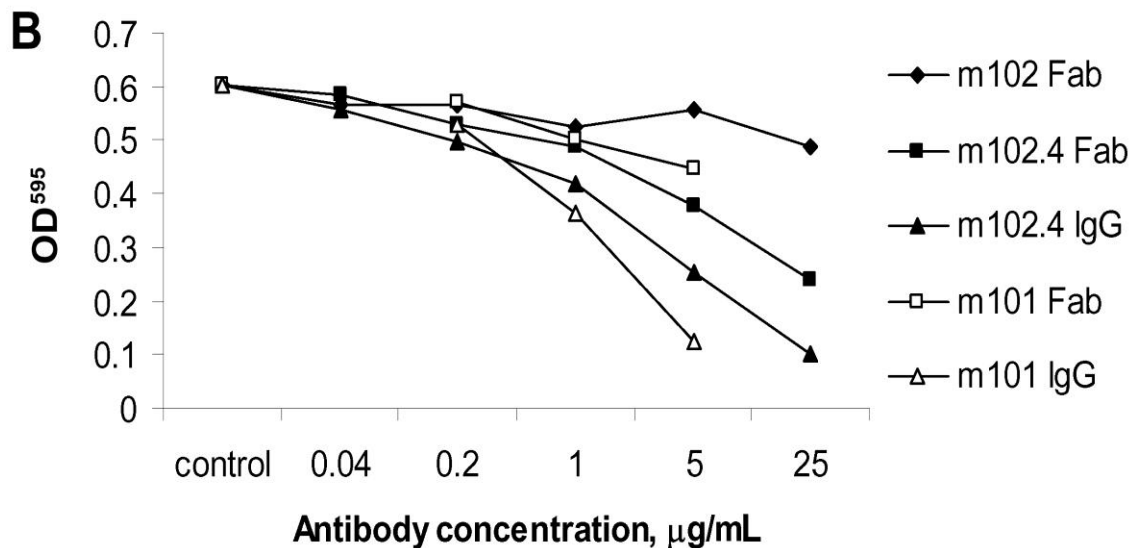
Exceptionally potent and cross-reactive inhibitory activity against Nipah and Hendra viruses



Nipah



Hendra



Human monoclonal antibody protects from lethal disease caused by Nipah virus

Katharine N. Bossart^{1*#}, Zhongyu Zhu^{2,3}, Deborah Middleton¹, Jessica Klippel¹, Gary Cramer¹, John Bingham¹, Jennifer A. McEachern¹, Diane Green¹, Timothy J. Hancock¹, Dimiter S. Dimitrov², Lin-Fa Wang¹ and Christopher C. Broder^{4*}

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³BRP, SAIC-Frederick, Inc., NCI-Frederick, Frederick, MD 21702

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Thanks to ...



Thanks to ...



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Centre for Disease Control and Prevention, USA
National Public Health Lab/University of Malaya, Malaysia
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Ministry of Agriculture, China
Ministry of Health, China
School of Biology, University of St Andrews, UK
National Institute of Infectious Diseases, Japan
National Institute of Animal Health, Japan
National Centre for Foreign Animal Diseases, Canada
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Thanks to ...



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