Product Datasheet

Flavivirus group antigen Antibody (D1-4G2-4-15 (4G2)) - Azide and BSA Free

NBP2-52709-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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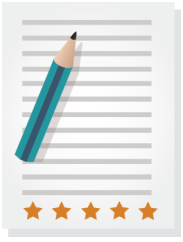
Updated 10/6/2024 v.20.1



NBP2-52709-0.2mg

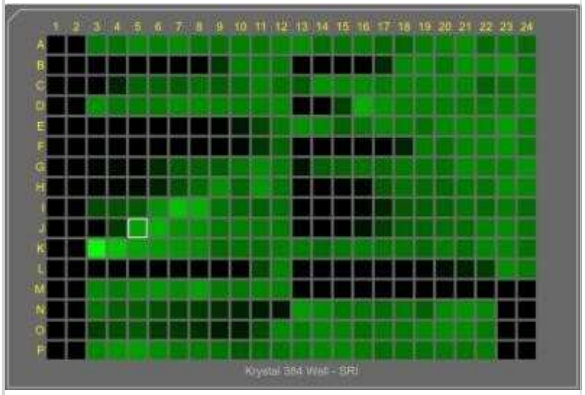
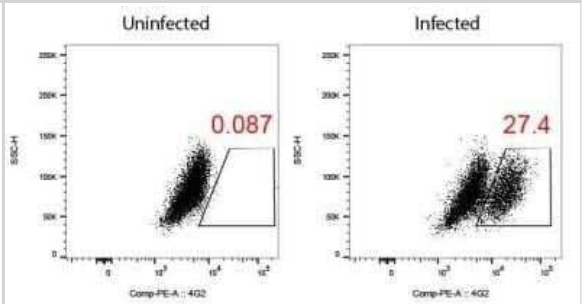
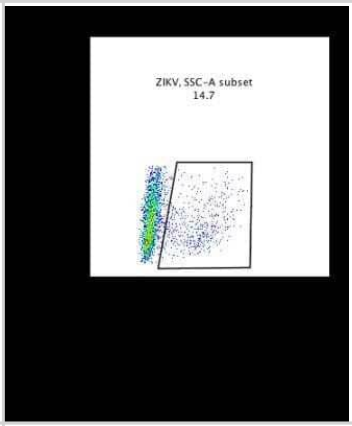
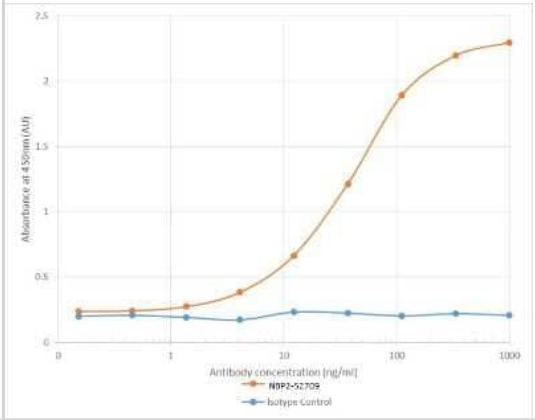
Flavivirus group antigen Antibody (D1-4G2-4-15 (4G2)) - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	D1-4G2-4-15 (4G2)
Preservative	0.02% Proclin 300
Isotype	IgG2a Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Mouse
Species	Virus
Reactivity Notes	Dengue Virus, Zika Virus, West Nile Virus, Yellow Fever Virus, Flaviviridae.
Specificity/Sensitivity	This Flavivirus group antigen Antibody (D1-4G2-4-15 (4G2)) recognises flavivirus group specific antigens (Dengue virus, West Nile Virus, Japanese Encephalitis, Yellow Fever Virus, Zika virus etc). It binds to the fusion loop at the extremity of domain II of protein E.
Immunogen	This recombinant Flavivirus group antigen Antibody (D1-4G2-4-15 (4G2)) was prepared from Dengue Virus type 2 antigens.

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence, Neutralization
Recommended Dilutions	Western Blot 1:100 - 1:2000, Flow Cytometry 1:10 - 1:1000, ELISA 1:100 - 1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Neutralization, Immunofluorescence 1:10 - 1:500, CyTOF-ready

Images

IF assay in a high throughput format for screening Dengue virus inhibitors. HEK 293 cells in DMEM 5% FBS/1% PS at 5000 cells/well are infected in presence of inhibitors with Dengue 2 New Guinea (VR-1584) using 384-well collagen-coated plates. After 48 h incubation at 37C/5% CO2, the supernatant is removed and the Alexa Fluor 647 conjugated Ab is added at 1:5250. Plates were read after O/N incubation. Columns 1-2: Cells control. 23-24, rows A-L: Cells + virus control. 23-24, rows M-P: Cells + virus control + control drug (Positive control). 3-12 and 13-22: Experimental compounds added in a dose response manner from high to low concentration (Columns 3-13 higher concentration, columns 12-22 lower concentration). Image using the Alexa Fluor 647 format of this antibody.	
Human C3/36 cell line. Flow cytometry image submitted by a verified customer review.	
Flow Cytometry: Flavivirus group antigen Antibody (D1-4G2-4-15 (4G2)) [PE] [NBP2-52709PE] - Mk2 cell line was infected with ZIKA virus at 72 p.o.i and the sample was stained and analyzed by flow cytometry. Image from verified customer review. Image using the PE form of this antibody.	
ELISA on Dengue Virus-Like Particles using NBP2-52709. Dengue Virus Serotype 2 VLPs were coated onto a plate at 5ug/ml. Anti-flavivirus antibody added to plate in a 3-fold serial dilution starting at 1000 ng/ml. Detection performed using HRP labelled goat anti-mouse IgG.	

Publications

Carla Bianca Luena Victorio, Wisna Novera, Arun Ganasarajah, Joanne Ong, Melisyaa Thomas, Jonas Wu, Hilary Si Yin Toh, Alfred Xuyang Sun, Eng Eong Ooi, Ann-Marie Chacko Repurposing of Zika virus live-attenuated vaccine (ZIKV-LAV) strains as oncolytic viruses targeting human glioblastoma multiforme cells Journal of Translational Medicine 2024-02-02 [PMID: 38308299]

Hans C. Leier, Jules B. Weinstein, Jennifer E. Kyle, Joon-Yong Lee, Lisa M. Bramer, Kelly G. Stratton, Douglas Kempthorne, Aaron R. Navratil, Endale G. Tafesse, Thorsten Hornemann, William B. Messer, Edward A. Dennis, Thomas O. Metz, Eric Barklis, Fikadu G. Tafesse A global lipid map defines a network essential for Zika virus replication Nature Communications 2020-07-21 [PMID: 32694525]

Carla Bianca Luena Victorio, Arun Ganasarajah, Wisna Novera, Joanne Ong, Rasha Msallam, Ann-Marie Chacko Translocator protein (TSPO) is a biomarker of Zika virus (ZIKV) infection-associated neuroinflammation Emerging Microbes & Infections 2024-04-25 [PMID: 38662785]

Gold AS Flavivirus-dependent packaging of Aedes aegypti saliva proteins into extracellular vesicles enhances infection Thesis 2023-01-01

Liu M, Chen Y, Twu N et al. A novel goose-origin Tembusu virus exhibits pathogenicity in day-old chicks with evidence of direct contact transmission Poultry Science 2023-11-01 [PMID: 38128459] (ICC/IF)

Johnson RM, Stopard IJ, Byrne HM et al. Investigating the dose-dependency of the midgut escape barrier using a mechanistic model of within-mosquito dengue virus population dynamics bioRxiv : the preprint server for biology 2023-09-29 [PMID: 37808804] (Virus)

Grunwald V, Ngo H, Formanski J et al. Development of Zika Virus E Variants for Pseudotyping Retroviral Vectors Targeting Glioblastoma Cells International Journal of Molecular Sciences 2023-09-23 [PMID: 37833934]

Jeong GU, Lee S, Kim DY et al. Zika Virus Infection Induces Interleukin-1beta-Mediated Inflammatory Responses by Macrophages in the Brain of an Adult Mouse Model Journal of virology 2023-05-16 [PMID: 37191498] (FLOW)

Fang E, Li M, Liu X et al. NS1 Protein N-Linked Glycosylation Site Affects the Virulence and Pathogenesis of Dengue Virus Vaccines 2023-05-08 [PMID: 37243063] (WB)

Kedarinath K, Fox CR, Crowgey E et al. CD24 Expression Dampens the Basal Antiviral State in Human Neuroblastoma Cells and Enhances Permissivity to Zika Virus Infection Viruses 2022-08-06 [PMID: 36016357] (FLOW, Human)

Fonseka CL, Hardman CS, Woo J et al. Dengue virus co-opts innate type 2 pathways to escape early control of viral replication Communications biology 2022-07-22 [PMID: 35869167] (ICC, B/N, Virus - HPV)

Martinez-Liu C, Machain-Williams C, Martinez-Acuna N et al. Development of a Rapid Gold Nanoparticle-Based Lateral Flow Immunoassay for the Detection of Dengue Virus Biosensors 2022-07-07 [PMID: 35884298]

More publications at http://www.novusbio.com/NBP2-52709

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