Datasheet for ABIN3200993

anti-Flavivirus E protein antibody

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Overview

Quantity:	0.1 mg
Target:	Flavivirus E protein
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Immunofluorescence (IF), Western Blotting (WB)

Product Details

Immunogen:	Dengue Virus
Clone:	4G2
Isotype:	IgG2a
Specificity:	E protein of Flavivirus
Characteristics:	Mouse monclonal generated against flavivirus envelope proteins. Recognizes Dengue virus, West Nile Virus, Japanese Encephalitis and Zika virus. It binds to domain II of protein E (fusion loop).
Purification:	Purified from hybridoma supernatant via Protein G

Target Details

Target:	Flavivirus E protein

Application Details

Application Notes:	0.1-1.0 µg/mL
Restrictions:	For Research Use only

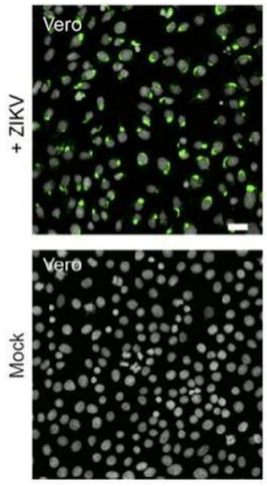
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	-20 °C
Storage Comment:	Heat stable , shipped at ambient temp Upon delivery aliquot and store in fridge , longterm storage at -20°C.

Publications

Product cited in:	Tang, Hammack, Ogden, Wen, Qian, Li, Yao, Shin, Zhang, Lee, Christian, Didier, Jin, Song, Ming: " Zika Virus Infects Human Cortical Neural Progenitors and Attenuates Their Growth." in: **Cell stem cell**, Vol. 18, Issue 5, pp. 587-90, (2017) (PubMed).

Images



Immunofluorescence

Image 1. IF of Zika infected cells

Validation report #101139 for Immunocytochemistry (ICC)

Successfully validated (Immunocytochemistry (ICC))

by Division of Clinical Pharmacology, LMU, Munich

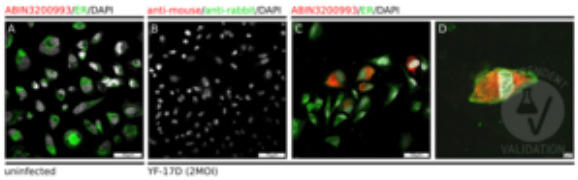
Report Number: 101139

Date: Nov 07 2017

Target:	Flavivirus E protein
Method validated:	Immunocytochemistry (ICC)
Positive Control:	1205Lu human melanoma cells infected with yellow fever vaccine strain YF-17D
Negative Control:	Uninfected 1205Lu cells; infected cells without primary antibody
Notes:	ABIN3200993 specifically labels the targeted antigen in 1205Lu melanoma cells in ICC. No signal was detected in uninfected negative control tissue and the secondary antibody only control.
Primary Antibody:	ABIN3200993
Secondary Antibody:	goat-anti mouse AF647 conjugated antibody (Invitrogen, A21235, lot 1764240)
Protocol:	• Grow cells in DMEM supplemented with 10% FCS, 1% L-Glutamin, 1% Pen/Strep (Gibco) to 70% confluency on coverslips coated with Poly L-Lysin (Sigma, P8920). • Infect cells with yellow fever vaccine strain YF-17D at 2MOI. • Grow cells on coverslips for 48h. • Fix cells on coverslips in 4% PFA for 30min at RT. • Wash cells 2x with PBS. • Permeabilize cells in PBScontaining 0.1% Triton-X 100 (PBST) for 1h at RT. • Wash cells 2x with PBS. • Block non-specific binding with in PBST containing 10% normal goat serum for 2h at RT. • Incubate slides with primary mouse anti-Flavivirus E protein antibody (antibodies-online, ABIN3200993) diluted 1:200 and rabbit-anti ER antibody (abcam, ab176333, GR265198-3) diluted 1:200 in PBST with 10% NGS ON at 4°C. • Include wells without primary antibody as negative controls. • Rinse slides 3x with PBST. • Incubate slides with secondary goat-anti mouse AF647 conjugatedantibody (Invitrogen, A21235, lot 1764240) diluted 1:1000 and goat-anti rabbit AF488 conjugated antibody (Invitrogen, A-11008, lot 84B2-1) diluted 1:1000 in PBST with 3% NGS for 1h at RT. • Rinse slide 3x with PBST. • Nuclear counterstain with DAPI diluted in PBS (Sigma, 10236276001). • Wash cells 2x with PBS. • Mount coverslips on glass slides in Mowiol antifade reagent (Calbiochem, 475904).

- Image acquisition with Leica SP5 II confocal imaging system, 20x magnification, 1024x1024 resolution.

Image for Validation report #101139



Validation image no. 1 for anti-Flavivirus E protein antibody (ABIN3200993)

1205Lu melanoma cells infected (B, C, D) and uninfected (A) with yellow fever vaccine strain YF-17D were stained with anti-Flavivirus E protein antibody ABIN3200993 and an ER-specific antibody (A, C, D) and AF647- (red) and AF488-conjugated (green) secondary antibodies or only with the secondary antibodies (B). DAPI counterstain (white) was used to reveal cells.