



DESCRIPTION

Target:	Chikungunya Virus E2
Target aliases:	
Fc isotype:	Mouse IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Chikungunya Virus
Epitope:	
Fc modifications:	C-terminal Avitag ¹ , disabled Fc-γ receptor binding ²
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding to endogenously-expressed Fc-γ receptors on target cells.

Chikungunya Virus E2 TARGET INFORMATION

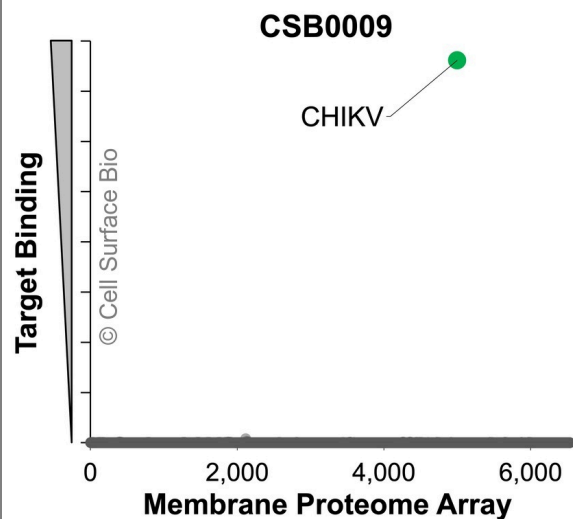
Chikungunya virus (CHIKV) is spread through bites from infected mosquitoes and can cause fever, joint pain and swelling, headache, muscle pain, or a rash (<https://www.cdc.gov/chikungunya/index.html>). This antibody has cross-reactivity with O'nyong'nyong virus (ONNV).

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

Membrane Proteome Specificity



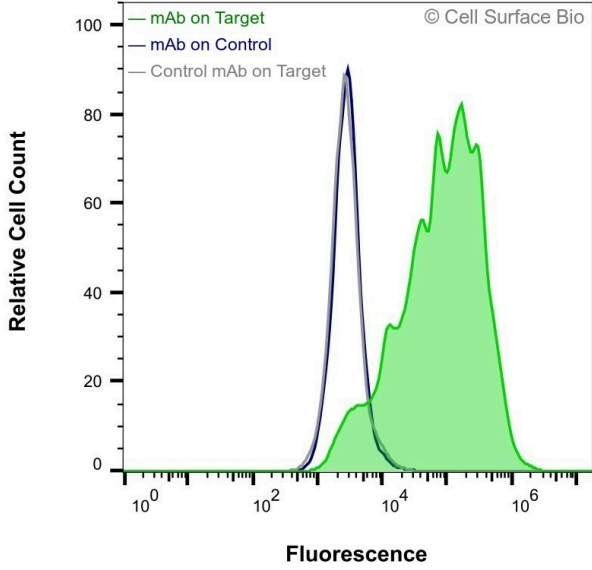
The specificity of Chikungunya Virus E2 Monoclonal Antibody (CSB0009) was tested on the Membrane Proteome Array™ and shown to be specific for human Chikungunya Virus E2.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

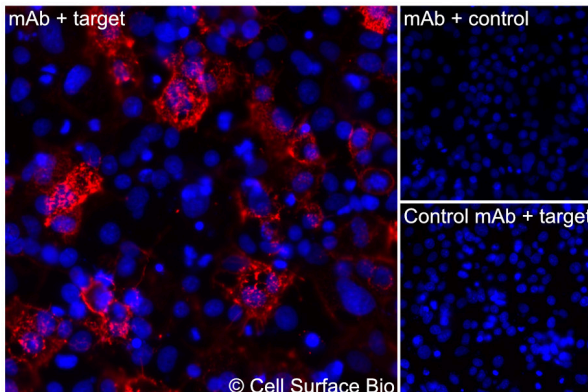
Applications
Flow Cytometry, Extracellular

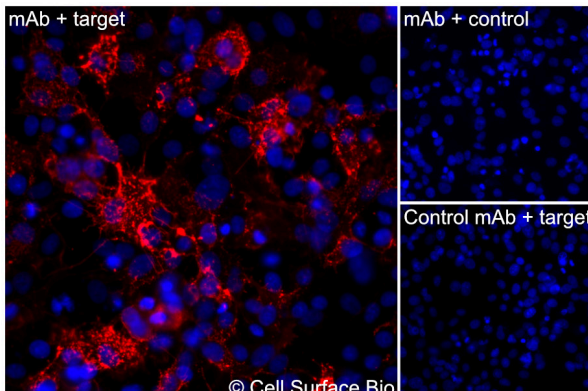
Conditions
Live, Unpermeabilized

Recommended concentration
1 µg/ml



HEK-293F cells transiently transfected with Chikungunya Virus E2 were stained with the Chikungunya Virus E2 Monoclonal Antibody (CSB0009)(green) or isotype control antibody (gray), followed by AlexaFluor 647-conjugated anti-mouse IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with the Chikungunya Virus E2 Monoclonal Antibody (CSB0009)(blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml
		
<p>(A) COS-7 cells transiently transfected with Chikungunya Virus E2 were stained with the Chikungunya Virus E2 Monoclonal Antibody (CSB0009) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with the Chikungunya Virus E2 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with Chikungunya Virus E2 and stained with control MAb.</p>		

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml
		
<p>(A) COS-7 cells transiently transfected with Chikungunya Virus E2 were permeabilized and stained with the Chikungunya Virus E2 Monoclonal Antibody (CSB0009) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with the Chikungunya Virus E2 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with Chikungunya Virus E2 and stained with control MAb.</p>		