

TECHNICAL DATA

Chikungunya E2/E1 Antibody, human recombinant

Antibody name:	IM-CKV063
Product:	Monoclonal Antibody
Target name:	Chikungunya (CHIK) E2/E1
Isotype:	IgG1
EC50:	21 ng/μl
Source:	Recombinant human
Purification method:	Chromatographic (Protein A)
Lot Number:	INT MAB- 007
Amount:	250 μg
Protein Concentration:	2.2 mg/ml
Storage Buffer:	PBS

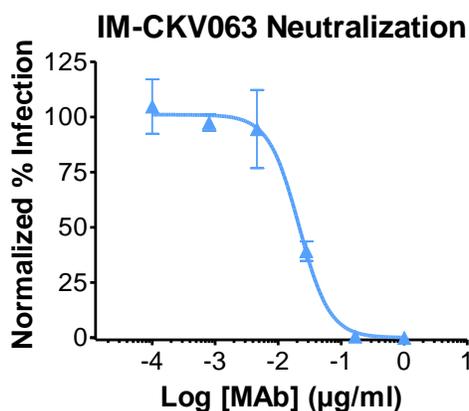


Figure 1. Neutralization Assay. Anti-CHIKV IM-CKV063 MAb was tested for the ability to neutralize the infectivity of HIV reporter viruses pseudotyped with CHIKV S27 E2/E1. Viruses were pre-incubated with MAbs and infection of HEK-293T target cells was detected by the expression of Renilla luciferase. Each data point is the mean of at least two replicates.

Safety & Handling

Upon receipt, store antibodies at 4°C.

The IM-CKV063 antibody sequences were originally cloned from CHIK infected human patients. IM-CKV063 binds CHIK E2/E1 proteins with high affinity (K_D 3.2×10^{-10} M)¹, and neutralizes CHIK in cell culture and protect animals from disease¹.

Antibodies are biological materials and should be handled with caution within a biological laboratory environment. Antibodies are for research only and should not be used for therapeutic or diagnostic purposes.

Reference (s):

1: Fong RH, et al., Exposure of epitope residues on the outer face of the chikungunya virus envelope trimer determines antibody neutralizing efficacy. *J Virol.* 2014 Dec;88(24):14364-79.

TECHNICAL DATA

Chikungunya E2/E1 Antibody, human recombinant

Antibody name:	C9
Product:	Monoclonal Antibody
Target name:	Chikungunya (CHIK) E2/E1
Isotype:	IgG1
EC50:	49 ng/μl
Source:	Recombinant human
Purification method:	Chromatographic (Protein A)
Lot Number:	INT MAB- 003
Amount:	250 μg
Protein Concentration:	2.5 mg/ml
Storage Buffer:	PBS-/-, 0.01%NaN₃

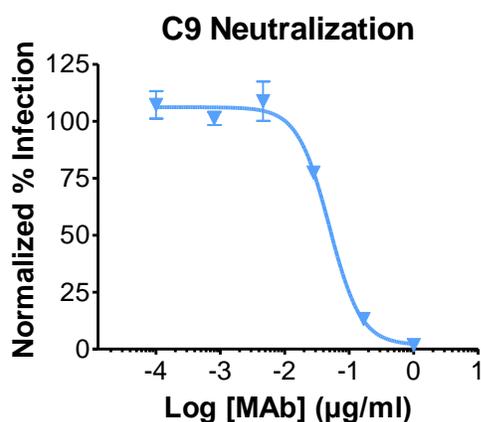


Figure 1. Neutralization Assay. Anti-CHIK C9 MAb was tested for the ability to neutralize the infectivity of HIV reporter viruses pseudotyped with CHIKV S27 E2/E1. Viruses were pre-incubated with MAbs and infection of HEK-293T target cells was detected by the expression of Renilla luciferase. Each data point is the mean of at least two replicates.

Safety & Handling

Upon receipt, store antibodies at -20C.

The C9 antibody sequences were originally cloned from CHIK infected human patients. C9 binds CHIK E2/E1 proteins with high affinity (K_D 12×10^{-10} M)^{1, 2}, and neutralizes CHIK in cell culture and protect animals from disease^{1, 2}.

Antibodies are biological materials and should be handled with caution within a biological laboratory environment. Antibodies are for research only and should not be used for therapeutic or diagnostic purposes.

Reference (s):

1: Selvarajah S, et al., A neutralizing monoclonal antibody targeting the acid-sensitive region in chikungunya virus E2 protects from disease. PLoS Negl Trop Dis. 2013 Sep 12;7(9):e2423.

2: Fong RH, et al., Exposure of epitope residues on the outer face of the chikungunya virus envelope trimer determines antibody neutralizing efficacy. J Virol. 2014 Dec;88(24):14364-79.