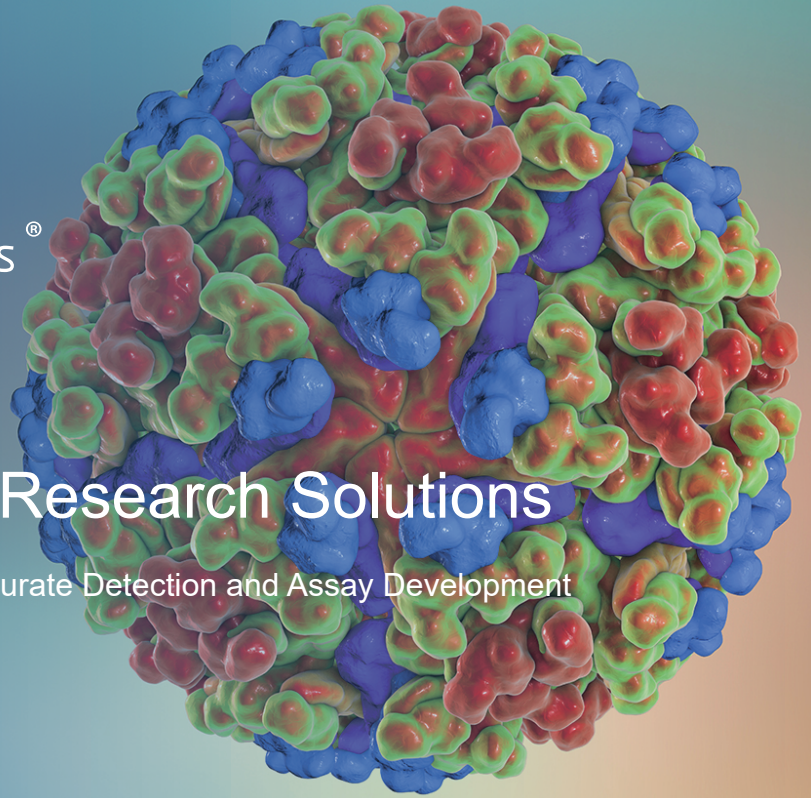


# Chikungunya Virus Research Solutions

Validated Antigens & Antibodies for Accurate Detection and Assay Development



## Chikungunya Overview

The Chikungunya virus (CHIKV) spreads via mosquito bites and produces Chikungunya fever (CHIK). . Correspondingly, Chikungunya fever's transmission patterns match those of dengue fever and the Zika virus. The disease spreads throughout tropical and subtropical areas of the world and its geographic range continues to grow.

CHIKV belongs to the genus *Alphavirus* in the family *Togaviridae* and consists of enveloped spherical virus particles measuring 60-70 nm in diameter. Only one serotype exists. CHIKV's viral genome consists of a single positive-sense RNA strand which measures 11.8 kb in length and contains four nonstructural proteins and five structural proteins. Genetic evolutionary study of viral genomes has shown three distinct genotypes, including West African, East Central and South African, and Asian. The IOL strain of this virus emerged through mutations of the East Central and South African virus and demonstrates better transmission through *Aedes albopictus* mosquito bites. CHIKV becomes non-viable when exposed to 56°C heat for thirty minutes. While the virus shows acid stability, it can be eliminated through disinfectants such as: 70% ethanol, 1% sodium hypochlorite, lipid solvents, peracetic acid, formaldehyde, glutaraldehyde, phenols, iodophors, and quaternary ammonium compounds, as well as ultraviolet irradiation.

## How is Chikungunya Fever Diagnosed?

Diagnosis of Chikungunya virus (CHIKV) infections should be considered for patients with acute febrile illness and joint pain who have recently traveled to areas with known virus transmission. Laboratory testing is required to confirm the diagnosis, primarily by detection of the virus itself, viral nucleic acid, or virus-specific antibodies in blood or serum samples.

Antibodies against CHIKV typically begin to rise around five days after symptom onset. For patients who test negative during the acute phase, a convalescent serum sample should be collected and tested to confirm or rule out the diagnosis.

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IgM antibody tests may yield false-positive results; positive results for virus-specific antibodies should be confirmed with additional testing such as a neutralization assay.

## Chikungunya Virus Vaccines

Currently, two Chikungunya vaccines have been approved by the U.S. Food and Drug Administration (FDA):

- A live-attenuated vaccine called IXCHIQ, approved for use in adults aged 18 and older. Due to significant adverse reactions, its use has been temporarily suspended for individuals aged 60 and above.
- A virus-like particle (VLP) vaccine called VIMKUNYA, which is approved for individuals aged 12 and older.

## Our CHIKV Product Portfolio

### CHIKV Antigens

Cat. No.	Product Name	Expression System
DAGA-160	Recombinant Chikungunya E1 (Mutant, A226V)	Insect cells
DAGA-161	Recombinant Chikungunya E1 Antigen	E. coli
DAGA-162	Recombinant Chikungunya E2 Antigen	E. coli
DAGA-163	Recombinant Chikungunya E1 E2 Composite Antigen	E. coli
DAGA-3014	Recombinant Chikungunya Virus VLP	HEK293
DAGC421	Inactivated CHIKV Antigen	N/A
DAGA-259	CHIKV Envelope Antigen 2 (aa 339-692) [His]	E. coli
DAGA-292	CHIKV Capsid protein [His]	E. coli
DAGA-413	Recombinant Chikungunya Virus Wild gp E1 [His]	Insect cells
DAGA-415	Recombinant Chikungunya Virus wild gp E2 [His]	Insect cells
DAG3056	Recombinant CHIKV E1 Protein (a.a. 1-415)	Insect cells

### Key Features of CHIKV Antigens

- Diverse expression systems: E. coli, insect cells, Drosophila S2, Baculovirus
- Rich variety of structural proteins (E1, E2, Capsid, etc.)
- Matched pair design, suitable for sandwich format immunoassays
- High purity and stability

## CHIKV Antibodies

Cat. No.	Product Name	Application
DMABT-Z59418	Anti-CHIKV Monoclonal antibody, Clone D2526O	I-ELISA, ICC, IF
DMABT-Z59420	Anti-CHIKV Monoclonal antibody, Clone D2525O	ELISA, ICC, IF
DMABT-Z59421	Anti-CHIKV Monoclonal antibody, Clone 4697	ICC, IF, ELISA
CABT-B8657	Anti-CHIKV Env monoclonal antibody, clone IN452	ELISA, LFIA
CABT-B8658	Anti-CHIKV Env monoclonal antibody, clone IN449	ELISA, LFIA
CABT-B8659	Anti-CHIKV monoclonal antibody, clone N97701	ELISA, IF
CABT-B8660	Anti-CHIKV monoclonal antibody, clone N97702	ELISA, IF
CABT-L979	Mouse Anti-CHIKV-Env 1 & 2 monoclonal antibody	ELISA, LFIA
CABT-B1086	Anti-CHIKV 181/25 polyclonal Antibody	ELISA, WB
DPAB-CS24011G	Human Anti-CHIKV IgG Control Serum	ELISA
DPAB-CS24011M	Human Anti-CHIKV IgM Control Serum	ELISA
DPAB-CS23037	Sheep Anti-CHIKV Polyclonal antibody	ELISA
CABT-CS648	Mouse Anti-CHIKV Monoclonal Antibody, Clone 4F8C	ELISA, ICC, Neut, WB
DMAB-CS25059	Human Anti-CHIKV Monoclonal antibody, clone CHKV46	ELISA, Neut
DMAB8527	Anti-CHIKV Monoclonal antibody, Clone F37E0.13	IF
DMAB8528	Anti-CHIKV Monoclonal antibody, Clone F37D5	IF
DPAB-CS24078	Rabbit Anti-CHIKV Capsid Polyclonal antibody	WB, ICC, IF
CABT-RM140	Mouse Anti-CHIKV CP monoclonal antibody, clone 6.6H0	ELISA, IHC, WB
CABT-BL8724	Anti-Chikungunya E1 monoclonal antibody	ELISA, LFIA
CABT-B9008	Anti-Chikugunya E1 monoclonal antibody, clone N97788	LFIA
DPAB-CS24079	Rabbit Anti-CHIKV E1 Polyclonal antibody	WB, ICC, IF
DMAB-CS23194	Mouse Anti-CHIKV E1 Monoclonal antibody, clone 277	ELISA, Inhib, Neut

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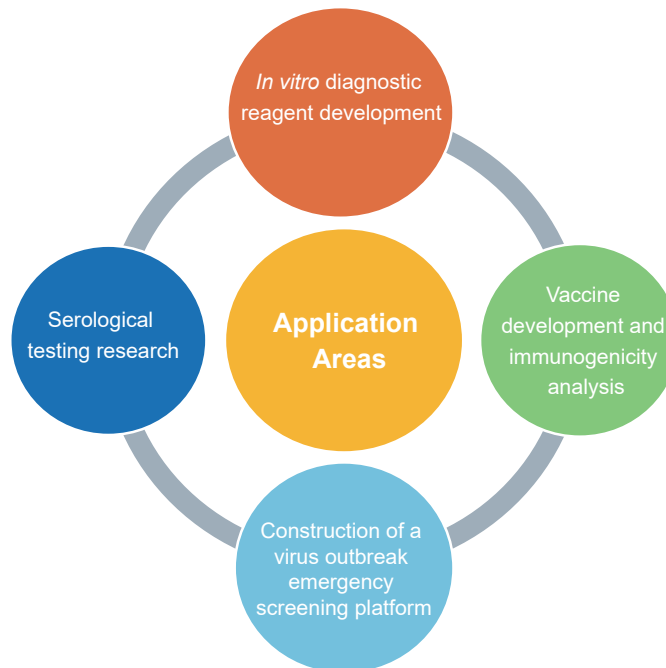
Cat. No.	Product Name	Application
DMAB-CS24039	Rabbit Anti-CHIKV E1 Monoclonal antibody, clone M3170	WB
DMAB-CS25056	Mouse Anti-CHIKV E1 Monoclonal antibody, clone CHK277	ELISA, FC, <i>in vivo</i> , Neut
DMAB-CBXY25173	Human Anti-CHIKV E1 Monoclonal antibody, clone 34E1G	Control, ELISA
DMAB-CBXY25174	Human Anti-CHIKV E1 Monoclonal antibody, clone 34E1M	Control, ELISA
DMAB-CS24225	Human Anti-CHIKV E1/E2 Monoclonal antibody, clone 24N	Neut
CABT-B1087	Anti-CHIKV E2 polyclonal Antibody	ELISA, WB
CABT-RM141	Mouse Anti-CHIKV E2 monoclonal antibody, clone 2.4B3	ELISA, Neut, WB
CABT-L1612M	Mouse Anti-CHIKV E2 monoclonal antibody, clone 16A12	ELISA, WB, IF
DMAB-CS25057	Mouse Anti-CHIKV E2 Monoclonal antibody, clone CHK263	ELISA, IHC, <i>in vivo</i> , Neut
DMAB-CS25058	Human Anti-CHIKV E2 Monoclonal antibody, clone CHKV35	ELISA, Neut
DMAB-CBXY25175	Human Anti-CHIKV E2 Monoclonal antibody, clone 34E2G	Control, ELISA
DMAB-CBXY25176	Human Anti-CHIKV E2 Monoclonal antibody, clone 34E2M	Control, ELISA
CABT-CS117	Mouse Anti-CHIKV E2 monoclonal antibody, clone IN694	ELISA, LFIA
DPAB-CS24080	Rabbit Anti-CHIKV E3 Polyclonal antibody	WB
DPAB-CS24074	Rabbit Anti-CHIKV NS1 Polyclonal antibody	WB, ICC, IF
DPAB-CS24075	Rabbit Anti-CHIKV NS2 Polyclonal antibody	WB, ICC, IF, IHC
DMAB-CS23162	Mouse Anti-CHIKV NS2 Monoclonal antibody, clone 3F21	WB, IF
DMAB-CS24036	Rabbit Anti-CHIKV NS2 Monoclonal antibody, clone M2542	WB, ICC, IF
DMAB-CS24037	Rabbit Anti-CHIKV NS2 Monoclonal antibody, clone M2543	WB, ICC, IF
DMAB-CS24038	Rabbit Anti-CHIKV NS2 Monoclonal antibody, clone M2599	WB, ICC, IF, IHC
DPAB-CS24076	Rabbit Anti-CHIKV NS3 Polyclonal antibody	WB, ICC, IF, IHC
DPAB-CS24077	Rabbit Anti-CHIKV NS4 Polyclonal antibody	WB, ICC, IF

# Chikungunya Virus Research Solutions

## CHIKV Antibodies – Key Features

- High specificity: No cross-reactivity with Dengue or Zika viruses
- Applicable to ELISA, LFA, and other immunoassays
- Monoclonal and polyclonal antibodies targeting E1, E2, and Envelope proteins

## Application Areas

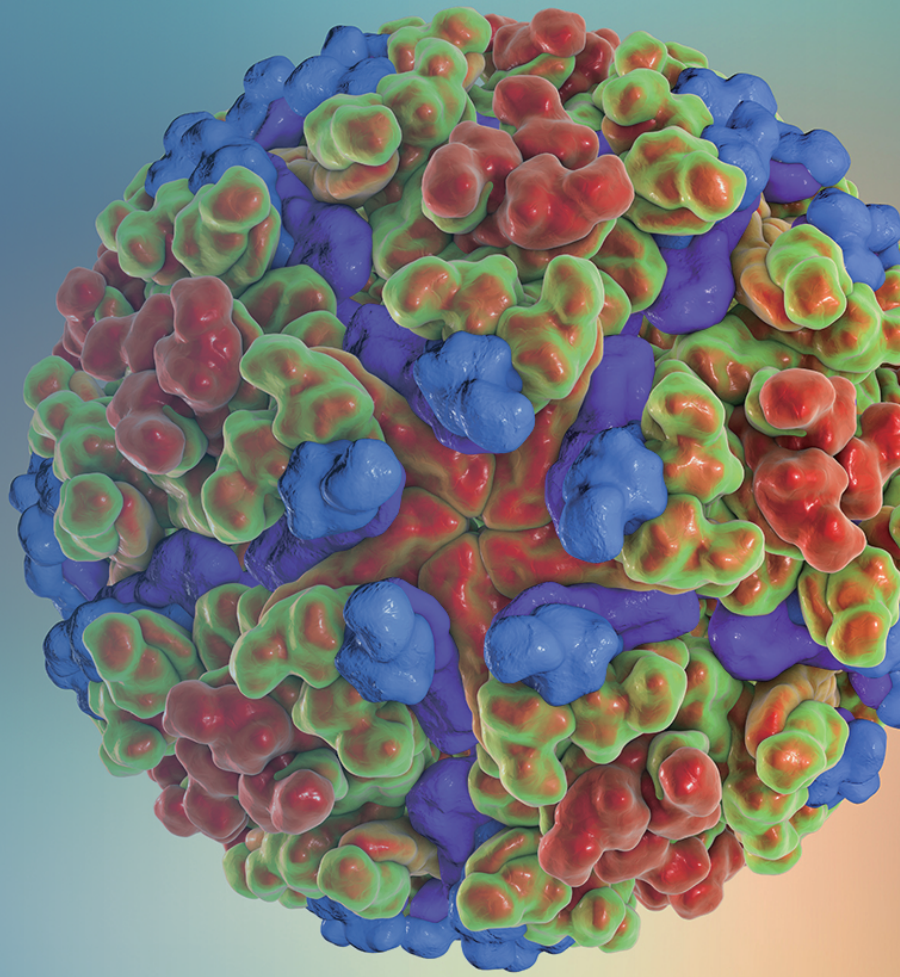


For those researching the Chikungunya virus, Creative Diagnostics is your reliable partner. Our quality control systems and consistent lot-to-lot performance guarantee that every reagent we deliver will be reliable. Our team provides expert technical support and customized solutions to meet your specific needs, leveraging our extensive experience in developing infectious disease detection tools. Our rapid delivery and global customer support work together to help you develop CHIKV assays with confidence and efficiency.

# Creative Diagnostics

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