

12-8138: Anti-Chikungunya Virus (Clone: CHKV-24)

Clonality :	Monoclonal
Clone Name :	CHKV-24
Application :	ELISA
Alternative Name :	CHKV
Isotype :	Human IgG1
Immunogen Information :	B cells of a survivor of natural CHIKV infection

Description

Specificity : CHKV-24 targets the CHIKV E2 glycoprotein.

Antigen Distribution : E2 glycoprotein is expressed on the surface of CHIKV.

Background : Chikungunya virus (CHIKV) is a mosquito-transmitted alphavirus that causes epidemics globally and has been declared a notable disease by the CDC. Symptoms include high fever, myalgia, rash, and severe polyarthrititis which can persist for long after acute infection. CHIKV is an enveloped virus with an 11.8-kb single-stranded, positive-sense RNA genome with two open reading frames. There are three main genotypes, having 95.2 to 99.8% amino acid identity: Asian, West African, and East/Central/South African (ECSA). The mature CHIKV virion is comprised of a nucleocapsid protein C and two glycoproteins, E1 and E2. E1 participates in virus fusion. E2 functions in attachment to cells. E1 and E2 form 80 trimeric spikes on the virus surface.

Co-circulation of CHIKV with other arboviruses, such as dengue, Zika, Mayaro, and yellow fever, occurs in many countries, posing significant difficulties for diagnosis. Monoclonal antibodies (MAb) can be used both for diagnosis and as a therapeutic agent. CHIKV can be rapidly detected by an immunochromatographic assay using MAbs against the CHIKV envelope protein.

Product Info

Amount :	100 µg
Purification :	≥95% monomer by analytical SEC
Content :	≥5.0 mg/ml; Formulation : This recombinant monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added.
Storage condition :	Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one year. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. Avoid Repeated Freeze Thaw Cycles.