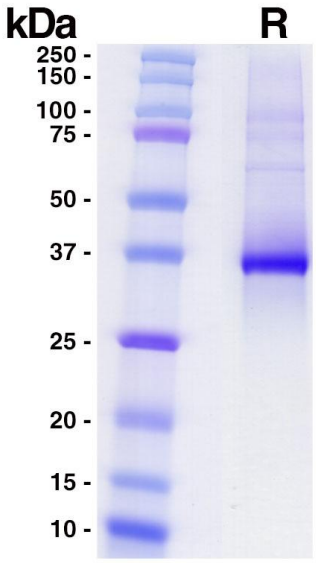
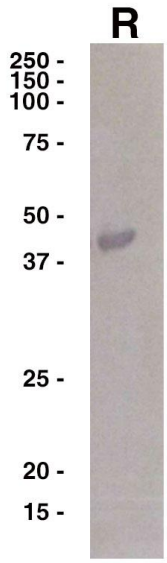
Recombinant Chikungunya Envelope Protein E2 (strain SL-CK1)

Recombinant Protein

Product Information

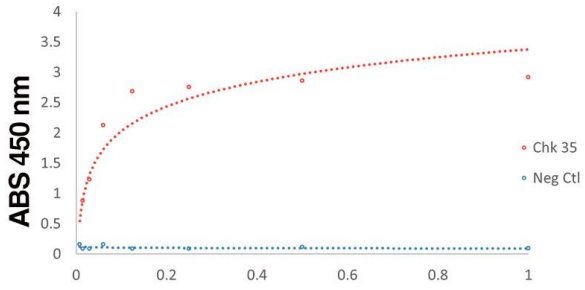
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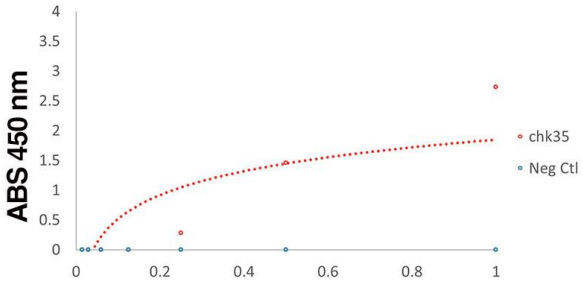




Chikungunya E2

Anti-Chikungunya E2





Product Description

Background:

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

Chikungunya virus (CHIKV) is a mosquito-transmitted alphavirus that causes epidemics globally and has been declared a notable disease by the Centers for Disease Control and Prevention[1, 2]. Symptoms include high fever, myalgia, rash, and severe polyarthritis 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[3, 4]. 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 5. E1 participates in virus fusion. E2 functions in attachment to cells. E1 and E2 form 80 trimeric spikes on the virus surface[6]. E2 localizes to the top of the spike and contains three domains: N-terminal domain A (center), domain B (tip), and C-terminal domain C (proximal to the viral membrane)[5].

The SL-CK1 CHIKV strain was isolated from an epidemic in Sri Lanka in 2007 from a human source and has been fully sequenced (Genbank ID HM045801.1)[7]. Residue 18 of strain SL-CK1 E2 is a histidine[8]. This residue is an important determinant of virus fitness in mosquito cells.

Soluble recombinant CHIKV E2 protein has been used to generate monoclonal antibodies[5].

Expression Host:
HEK-293 Cells

Format:
Purified No Carrier Protein

Formulation
Lyophilized from 0.01M Phosphate Buffered Saline (150mM NaCl)(PBS) pH 7.4, with 5% Trehalose and 10mM DTT

Purity
≥90% by SDS PAGE

Endotoxin
<1.0 EU/μg

Storage and Stability
1 month, 2 to 8 °C. Sterile conditions after opening and reconstitution. 1 year from date of receipt, -20 to -80 °C as supplied 3 months from date of receipt, -20 to -80 °C. Sterile conditions after opening and reconstitution.

Applications
Applications and Recommended Usage (Quality Tested By Leinco):

ELISA,
Western Blot

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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Country of Origin
USA

References
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