Viral MCV-type II Chemokine-like Protein Alexa Fluor® 700-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF697N
100 µg

DESCRIPTION

Species Reactivity	Viral
Specificity	Detects viral MCV-type II Chemokine-like Protein in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant viral MCV-type II Chemokine-like Protein
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Molluscum contagiosum virus (MCV) is a human cutaneous poxvirus which causes benign proliferative lesions of the skin in normal and immunocompromised individuals. Based on endonuclease cleavage patterns of viral DNA, MCV isolates can be classified into two different types, MCV type I (MCVI) and MCV type II (MCVII). Like other DNA viruses such as poxviruses and herpesviruses, MCV has been shown to encode homologs of cellular immunomodulatory proteins. These viral proteins enable the virus to evade the host immune system and enhance the ability of the virus to propogate and survive.

MC148R2 is a CC chemokine-like protein encoded by a MCV type II gene. MC148R2 cDNA encodes a putative 104 amino acid (aa) protein containing a 24 aa signal peptide that is cleaved to produce an 80 aa mature protein. The mature protein shares 89% homology to the MCV type I chemokine-like protein, MC148R1. Compared to MIP-β, MC148R2 retains the 4 conserved cysteine residues but has a 5 aa residue deletion at the amino-terminus region which is important for receptor activation. The MCV type I and type 2 proteins do not exhibit chemotactic properties, however these proteins have been shown *in vitro* to inhibit the monocyte chemotaxis induced by human MIP-1α as well as the binding of radiolabeled I-309 to hCCR8 transfected cells.

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