

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Viral                                                                                |
| <b>Specificity</b>                                                                                                                                                                                      | Detects viral MCV-type II Chemokine-like Protein in direct ELISAs and Western blots. |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Goat IgG                                                                  |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                            |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant viral MCV-type II Chemokine-like Protein         |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm      |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <b>Neutralization</b> | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>   | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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 propagate 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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