# CMV US28 (vN-17): sc-28040



The Power to Question

### **BACKGROUND**

Cytomegalovirus (CMV) is a member of the herpes virus group which includes herpes simplex virus types 1 and 2; Varicella Zoster Virus, which causes chicken pox; and Epstein Barr virus, which causes infectious mononucleosis. These viruses remain dormant within the body over a long period. In humans, CMV is known as HCMV or human herpesvirus 5 (HHV-5). The virally encoded protein CMV US28 functions as a homolog to cellular chemokine receptors, which belong to the family of G protein-coupled receptors (GPCRs). GPCRs play a crucial role in cellular communication, and chemokines and their receptors specifically facilitate the host antiviral response. Normally, exogenous chemokines such as MCP-1 and RANTES induce monocyte chemotaxis in infected cultures, however, CMV US28 sequesters extracellular chemokines from the environment of infected cells, providing a defense to the immune response to infected cells.

# **REFERENCES**

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# SOURCE

CMV US28 (vN-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of US28 of CMV origin.

# **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-28040 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

CMV US28 (vN-17) is recommended for detection of US28 of CMV origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of CMV US28: 41 kDa.

# **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

#### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

# **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

# **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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