



HHV-6 p37 early antigen (2006): sc-58155

BACKGROUND

The Herpesviridae family consists of DNA viruses that cause diseases in humans and other animals. This family is comprised of eight distinct viruses: HHV-1–HHV-8. Human herpes virus type 6 (HHV-6) and HHV-7 are associated with febrile illnesses and the childhood disease exanthem subitum, while HHV-8 resembles the Epstein-Barr virus in its possible transforming properties and may play a role in lymphomas and Kaposi's sarcoma. HHV-6, a newly described β -herpesvirus that shares homology with cytomegalovirus (CMV), consists of two closely related variants: HHV-6A and HHV-6B. HHV-6 infection is followed by persistence and latency in different tissues including monocytes/macrophages, salivary glands, brain and kidney. HHV-6 activation may play a role in the pathogenesis of certain demyelinating diseases such as progressive multifocal leukoencephalopathy (PML) and multiple sclerosis (MS). HHV-6 DNA is normally found as a marker of active viral infection in serum samples of MS patients. Patients with relapsing-remitting MS (RRMS) specifically have demonstrated increased IgM serum antibody responses to HHV-6 early antigen.

REFERENCES

1. Ablashi, D.V., et al. 1994. Human herpesvirus 6 (HHV-6) and chronic fatigue syndrome (CFS). *Can. Dis. Wkly. Rep.* 17: 33-40.
2. Jayavasu, C., et al. 1997. The latency rate of human herpesvirus 6 (HHV-6) in positive and negative human immunodeficiency virus (HIV) infection of intravenous drug users (IVDU). *Asian Pac. J. Allergy Immunol.* 15: 29-33.
3. Levy, J.A. 1997. Three new human herpesviruses (HHV-6, -7 and -8). *Lancet* 349: 558-563.
4. Blumberg, B.M., et al. 2000. The HHV-6 paradox: ubiquitous commensal or insidious pathogen? A two-step *in situ* PCR approach. *J. Clin. Virol.* 16: 159-178.
5. Abdel-Haq, N.M. and Asmar, B.I. 2004. Human herpesvirus 6 (HHV-6) infection. *Indian J. Pediatr.* 71: 89-96.
6. Caserta, M.T., et al. 2004. Human herpesvirus 6 (HHV-6) DNA persistence and reactivation in healthy children. *J. Pediatr.* 145: 478-484.
7. Hernández-Losa, J., et al. 2005. Lack of association of polyomavirus and herpesvirus types 6 and 7 in human lymphomas. *Cancer* 103: 293-298.
8. Merk, J., et al. 2005. Fatal pulmonary failure attributable to viral pneumonia with human herpes virus 6 (HHV-6) in a young immunocompetent woman. *J. Intensive Care Med.* 20: 302-306.
9. Debarbieux, S., et al. 2006. Drug hypersensitivity syndrome associated with a primary HHV-6 infection. *Ann. Dermatol. Venereol.* 133: 145-147.

SOURCE

HHV-6 p37 early antigen (2006) is a mouse monoclonal antibody raised against human herpesvirus type 6.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

HHV-6 p37 early antigen (2006) is recommended for detection of a 37 kDa early antigen of HHV-6 origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of HHV-6 p37 early antigen: 37 kDa.

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 for detailed protocols and support products.