

HTLV-1 p19 (45/6.11.1.3): sc-57868

BACKGROUND

Human T-lymphotropic virus (HTLV) is a single-stranded RNA retrovirus that causes T cell leukemia and T cell lymphoma in human adults and may be involved in a few demyelinating diseases. HTLV-1 is a member of the HTLV family that is associated with several kinds of diseases including HTLV-1-associated myelopathy, infection with *Strongyloides stercoralis*, and a virus cancer link to leukemia. HTLV-1 transmission probably occurs via sexual contact, childbirth and through exposure to contaminated blood. HTLV-1 p19 is a major core viral protein encoded by the gag gene. Differential antibody responsiveness to p19 gag can be used in the serological discrimination between HTLV-1 and HTLV-2.

REFERENCES

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3. Ebersold, A., Noraz, N., Grange, J., Gasmi, M., Grange, M.P., Souche, S., Mamoun, R. and Desgranges, C. 1993. Production and characterization of a monoclonal antibody directed against HTLV-1 p19: use in a specific capture enzyme immunoassay. *Hybridoma* 12: 185-195.
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5. Zrein, M., Louwagie, J., Boeykens, H., Govers, L., Hendrickx, G., Bosman, F., Sablon, E., Demarquilly, C., Boniface, M. and Saman, E. 1998. Assessment of a new immunoassay for serological confirmation and discrimination of human T cell lymphotropic virus infections. *Clin. Diagn. Lab. Immunol.* 5: 45-49.
6. Ding, Y.S., Rich, D.H. and Ikeda, R.A. 1999. Substrates and inhibitors of human T cell leukemia virus type 1 protease. *Biochemistry* 37: 17514-17518.
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SOURCE

HTLV-1 p19 (45/6.11.1.3) is a mouse monoclonal antibody raised against HTLV-1 p19.

PRODUCT

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

APPLICATIONS

HTLV-1 p19 (45/6.11.1.3) is recommended for detection of HTLV-1 p19 of HTLV-1 origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of HTLV-1 p19: 34 kDa.

SELECT PRODUCT CITATIONS

1. Martins, C.P., Martins, C.P., Gomes, O.A., Martins, M.L., de Carvalho, L.D., de Souza, J.G., Da Fonseca, F.G., dos Santos, R.G., Andrade, M.S., Zani, C.L., de Souza-Fagundes, E.M. and Barbosa-Stancioli, E.F. 2014. A reduction of viral mRNA, proteins and induction of altered morphogenesis reveals the anti-HTLV-1 activity of the labdane-diterpene myriadenolide *in vitro*. *BMC Microbiol.* 14: 331.

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.