HTLV-2 p19 (78/6.18.07): sc-57875



The Power to Question

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-2 shares approximately 70% genomic homology with HTLV-1 and is associated with several cases of myelopathy/tropical spastic paraparesis (HAM/TSP)-like neurological disease. HTLV-1 p19 and p24 are major core viral proteins 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

- Greaves, M.F., Verbi, W., Tilley, R., Lister, T.A., Habeshaw, J., Trainor, C.D., Robert-Guroff, Guo, H.G., M., Blattner, W. and Reitz, M. 1984. Human T cell leukemia virus (HTLV) in the United Kingdom. Int. J. Cancer 33: 795-806.
- Lal, R.B., Brodine, S.K., Coligan, J.E. and Roberts, C.R. 1992. Differential antibody responsiveness to p19 gag results in serological discrimination between human T-lymphotropic virus type 1 and type 2. J. Med. Virol. 35: 232-236.
- 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.
- 4. Takahashi, H. 1993. Molecular characterization of human T cell lymphotrophic virus type 2. Hokkaido lgaku Zasshi 68: 485-95.
- 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
- 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.
- 7. Xie, L. and Green, P.L. 2005. Envelope is a major viral determinant of the distinct *in vitro* cellular transformation tropism of human T cell leukemia virus type 1 (HTLV-1) and HTLV-2. J. Virol. 79: 14536-14545.
- 8. Hiraragi, H., Kim, S.J., Phipps, A.J., Silic-Benussi, M., Ciminale, V., Ratner, L., Green, P.L. and Lairmore, M.D. 2006. Human T-lymphotropic virus type 1 mitochondrion-localizing protein p13(II) is required for viral infectivity *in vivo*. J. Virol. 80: 3469-3476.
- Yao, K., Hisada, M., Maloney, E., Yamano, Y., Hanchard, B., Wilks, R., Rios, M. and Jacobson, S. 2006. Human T-lymphotropic virus types 1 and 2 Western blot seroindeterminate status and its association with exposure to prototype HTLV-1. J. Infect. Dis. 193: 427-437.

SOURCE

HTLV-2 p19 (78/6.18.07) is a mouse monoclonal antibody raised against HTLV-2 p19.

PRODUCT

Each vial contains 100 μg lgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

HTLV-2 p19 (78/6.18.07) is recommended for detection of HTLV-2 p19 of HTLV-2 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-2 p19: 34 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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com