

# Soluble CD30 As A Surrogate Marker Of HIV-1 RNA

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## VALUE PROPOSITION

Antiretroviral therapy (ART) has substantially reduced the morbidity and mortality rates of HIV-1 infection, the persistence of viral reservoirs continues to prevent the elimination of HIV-1 from all tissue compartments. Consequently, there is still a need for point of care (POC) tests of circulating HIV levels (viral load) that do not rely on expensive technologies such as PCR.

## TECHNOLOGY DESCRIPTION

UCSF Investigators have identified CD30, a stable, soluble protein as a surrogate biomarker for HIV-1 RNA, and are developing a POC assay for widespread distribution and use.

## RELATED MATERIALS

- ▶ Peluso, M. J., Thanh, C., Prator, C. A., Hogan, L. E., Arechiga, V. M., Stephenson, S., Norris, P. J., Germanio, C. D., Fuchs, D., Zetterberg, H., Deeks, S. G., Magnus Gisslén, Price, R. W., & Henrich, T. J. (2020). Cerebrospinal fluid soluble CD30 elevation despite suppressive antiretroviral therapy in individuals living with HIV-1. *Journal of Virus Eradication*, 6(1), 19–26.
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- ▶ Hogan, L. E., Vasquez, J., Hobbs, K. S., Hanhauser, E., Aguilar-Rodriguez, B., Hussien, R., Thanh, C., Gibson, E. A., Carvidi, A. B., Louis, Khan, S., Trapecar, M., Shomyseh Sanjabi, Somsouk, M., Stoddart, C. A., Kuritzkes, D. R., Deeks, S. G., & Henrich, T. J. (2018). Increased HIV-1 transcriptional activity and infectious burden in peripheral blood and gut-associated CD4+ T cells expressing CD30. *PLOS Pathogens*, 14(2), e1006856–e1006856.

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## OTHER INFORMATION

### KEYWORDS

HIV-1, central nervous system, CNS, cerebrospinal fluid (CSF), CD30, point of care, viral reservoir, biomarker

### CATEGORIZED AS

- ▶ **Biotechnology**
  - ▶ Health
- ▶ **Medical**
  - ▶ Diagnostics
  - ▶ Disease: Infectious Diseases

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