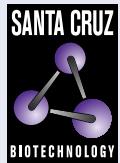


HIV-1 Vif (319): sc-69731



The Power to Question

BACKGROUND

Viral infectivity factor (Vif) is a nonstructural HIV-1 protein that acts during virus assembly by an unknown mechanism, enhancing viral infectivity. Inhibiting HIV-1 Vif by intrabody expression produces viral particles that do not complete reverse transcription. Recent studies suggest that HIV-1 Vif enhances infectivity by overcoming an inhibitory factor present in non-permissive cells. HIV-1 Vif interacts with G_{αγ}, viral protease, HP68, spermine, Triad 3 and RNA. HIV-1 Vif exists as a soluble cytoplasmic form and as a membrane bound form that tightly associates with the cytoplasmic side of cellular membranes. HIV-1 Vif is a protein that can form multimers that accumulate in the cytoplasm of HIV-1 infected cells.

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SOURCE

HIV-1 Vif (319) is a mouse monoclonal antibody raised against HIV-1 Vif.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HIV-1 Vif (319) is available conjugated to agarose (sc-69731 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-69731 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-69731 PE), fluorescein (sc-69731 FITC), Alexa Fluor® 488 (sc-69731 AF488), Alexa Fluor® 546 (sc-69731 AF546), Alexa Fluor® 594 (sc-69731 AF594) or Alexa Fluor® 647 (sc-69731 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-69731 AF680) or Alexa Fluor® 790 (sc-69731 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

STORAGE

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

APPLICATIONS

HIV-1 Vif (319) is recommended for detection of Vif of HIV-1 by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immuno-fluorescence (starting dilution 1:50, dilution range 1:50-1:500).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

- 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

SELECT PRODUCT CITATIONS

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3. Evans, E.L., Becker, J.T., Fricke, S.L., Patel, K. and Sherer, N.M. 2018. HIV-1 Vif's capacity to manipulate the cell cycle is species specific. *J. Virol.* 92: e02102-17.
4. Marrero-Hernández, S., Márquez-Arce, D., Cabrera-Rodríguez, R., Estévez-Herrera, J., Pérez-Yanes, S., Barroso-González, J., Madrid, R., Machado, J.D., Blanco, J. and Valenzuela-Fernández, A. 2019. HIV-1 Nef targets HDAC6 to assure viral production and virus infection. *Front. Microbiol.* 10: 2437.
5. Ali, A., Kumar, V. and Banerjea, A.C. 2021. STUB1/CHIP promotes ubiquitination and degradation of HIV-1 Vif to restore the cellular level of APOBEC3G protein. *Biochem. Biophys. Res. Commun.* 574: 27-32.
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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.