

SIV-1 Nef (17): sc-130538

BACKGROUND

Simian immunodeficiency virus (SIV) is a retrovirus found amongst primates consisting of multiple strains. In humans, these strains are HIV-1 and HIV-2. HIV-1 is most closely related to the chimpanzee strain SIVcpz. Negative factor (Nef), also called F-protein, is an early protein that functions in optimizing the host cell environment for the replication of virions while preventing apoptosis via inhibition of the FAS and TNFR-mediated death signals and decreasing p53 half-life. The N-terminus of Nef contains myristylation sites which, upon activation, function to anchor the protein on the cytoplasmic side of the plasma membrane. SIV-1 Nef functions as a homodimer that interacts with a variety of proteins including PI 3-kinase. This interaction activates PAK2 and increases production of SIV. SIV-1 Nef plays a role in immune system evasion by downregulating MHC-I molecules and decreasing CD4 antigens on the cellular surface.

REFERENCES

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RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

SIV-1 Nef (17) is a mouse monoclonal antibody raised against recombinant Nef protein of SIV-1 (mac251 strain) origin.

PRODUCT

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

APPLICATIONS

SIV-1 Nef (17) is recommended for detection of amino acids 71-80 of SIV-1 Nef origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of SIV-1 Nef: 27-34 kDa.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.