



## FIV gp120 (3H2127): sc-71119

### BACKGROUND

Feline immunodeficiency virus (FIV) is a lentivirus that affects domestic cats throughout the world. Five subtypes of FIV exist, based on amino acid sequence differences in the viral envelope. The main mode of FIV transmission is through deep bite wounds, though it can also be spread via mucosal surfaces such as those in the mouth, rectum and vagina. FIV is similar to human immunodeficiency virus (HIV) in that it infects many cell types in its host, including CD4<sup>+</sup> and CD8<sup>+</sup> T lymphocytes, B lymphocytes and macrophages. FIV eventually leads to collapse of the immune system because of the infection and exhaustion of the CD4<sup>+</sup> cells. FIV gp120 (also known as env/SU) and p24 are glycoproteins that localize to the envelope of the virus and are useful in diagnosis of the disease.

### REFERENCES

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### SOURCE

FIV gp120 (3H2127) is a mouse monoclonal antibody raised against density gradient purified FIV gp120.

### PRODUCT

Each vial contains 1.0 ml culture supernatant containing IgG<sub>1</sub> with < 0.1% sodium azide.

### APPLICATIONS

FIV gp120 (vpg 68) is recommended for detection of Env gp120 of FIV origin by immunoprecipitation [1–2 µg (approximately 10–20 µl) per 100–500 µg of total protein (1 ml of cell lysate)] and flow cytometry [1 µg (approximately 10–20 µl) per 1 × 10<sup>6</sup> cells].

Molecular Weight of FIV gp120: 120 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

### STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.