



## FeLV p27 (7216): sc-58126

### BACKGROUND

Feline leukemia virus (FeLV), a retrovirus that infects cats, is usually transmitted between infected cats through saliva or nasal secretions, though it can also be transmitted via urine, feces or milk. Once transmitted, the virus infects the epithelial cells, tonsillar B lymphocytes and macrophages of the cat, and subsequently enters the blood stream, eventually causing viremia. If the virus passes into the bone marrow, it will remain in the body of the cat for life. FeLV causes immunosuppression and kills about 30% of infected cats. Four subgroups of FeLV exist: FeLV-A, -B, -C and -T, but only subgroup A is transmissible between cats. p27 represents the major core protein of FeLV and may be useful in detection of the virus.

### REFERENCES

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3. Faix, P.H., et al. 2002. Host range and receptor binding properties of vectors bearing feline leukemia virus subgroup B envelopes can be modulated by envelope sequences outside of the receptor binding domain. *J. Virol.* 76: 12369-12375.
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5. Nolen, R.S. 2004. Feline leukemia virus threatens endangered panthers. *J. Am. Vet. Med. Assoc.* 224: 1721-1722.
6. Endo, Y., et al. 2005. Prevalence of canine distemper virus, feline immunodeficiency virus and feline leukemia virus in captive African lions (*Panthera leo*) in Japan. *J. Vet. Med. Sci.* 66: 1587-1589.
7. Torres, A.N., et al. 2005. Re-examination of feline leukemia virus: host relationships using real-time PCR. *Virology* 332: 272-283.
8. Gomes-Keller, M.A., et al. 2006. Shedding of feline leukemia virus RNA in saliva is a consistent feature in viremic cats. *Vet. Microbiol.* 112: 11-21.
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### SOURCE

FeLV p27 (7216) is a mouse monoclonal antibody raised against feline leukemia virus.

### PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### APPLICATIONS

FeLV p27 (7216) is recommended for detection of Gag p27 of FeLV 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 FeLV p27: 28 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](http://www.scbt.com) for detailed protocols and support products.