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SM2014B Monoclonal Antibody to FIV p24 gag - Biotin

Alternate names: Feline Immunodeficiency Virus Capsid protein p24

Quantity: 0.25 mg

Concentration: 1.0 mg/ml

Background: The lentivirus FIV, responsible for a progressive and debilitating immune deficiency syndrome in domestic cats, similar to that caused by the human Immunodeficiency Virus (HIV), is a complex retrovirus with a tightly-packed genome, containing the structural genes gag, env and pro-pol and the accessory genes vif, rev and ORF-A/2.

Uniprot ID: P16087

NCBI: 11674

Host / Isotype: Mouse / IgG1

Clone: PAK3-2C1

Format:
State: Liquid purified igG
Purification: Affinity chromatography on Protein A
Buffer System: PBS, pH 7.2 containing 0.05% Sodium Azide
Label: Biotin

Applications:
ELISA.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognises an immunodominant p24 epitope of immunodeficiency virus (FIV) p24 gag. The specific binding epitope recognised by clone PAK3-2C1 appears to be enclosed in a tight peptide coil during gag production and maturation. The addition of 0.3% Triton-X detergent is recommended to reveal this epitope for antibody binding. This antibody can be used as a detection reagent in ELISA assays in combination with AM01001PU-N as a capture reagent. This antibody does not recognise Leukaemia Virus (FeLV), Feline Herpes Virus (FHV) type 1, Feline Coronavirus or Feline Calicivirus.

Storage:
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Lerner DL, Wagaman PC, Phillips TR, Prospero-Garcia O, Henriksen SJ, Fox HS, et al. Increased mutation frequency of feline immunodeficiency virus lacking functional deoxyuridine-triphosphatase. Proc Natl Acad Sci U S A. 1995 Aug 1;92(16):7480-4. PubMed PMID: 7638216.
2. Chatterji, U. et al. (2000) Feline Immunodeficiency Virus Vif localises to the nucleus. J. Virol. 74: 2533 - 2540.
3. Norway RM, Crawford PC, Johnson CM, Mergia A. Thymic lesions in cats infected with a pathogenic molecular clone or an ORF-A/2-deficient molecular clone of feline immunodeficiency virus. J Virol. 2001 Jul;75(13):5833-41. PubMed PMID: 11390584.

4. Simon JH, Fouchier RA, Southerling TE, Guerra CB, Grant CK, Malim MH. The Vif and Gag proteins of human immunodeficiency virus type 1 colocalize in infected human T cells. J Virol. 1997 Jul;71(7):5259-67. PubMed PMID: 9188594.