

## Product datasheet for **AP09359PU-N**

### FIV p15 gag Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	ELISA: 1/5,000 - 1/20,000. Western Blot: 1/1,000 - 1/10,000 (expect a band of approximately 15 kDa in cell lysates) Immunocytochemistry: 1/20 – 1/100.
Reactivity:	Feline
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to amino acids from an internal region of FIV Matrix Protein p15
Specificity:	This antibody is directed against FIV Matrix Protein p15.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.01% (w/v) Sodium Azide State: Aff - Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">P16087</a>



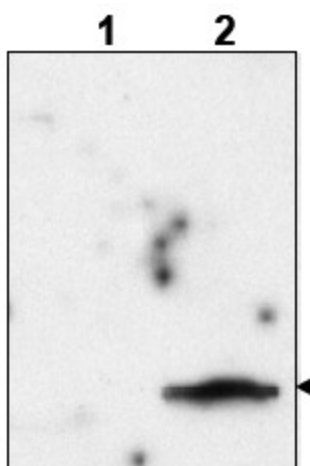
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**Background:**

Feline immunodeficiency virus (FIV) belongs to the lentivirus family. This family is characterized by assembly of the viral capsid at either the plasma membrane or at the limiting membrane of late endosomes. The capsid assembles from the viral Gag polyprotein. Upon release of a budding virion, Gag precursor protein is cleaved by the viral protease into its mature products, namely Matrix Protein, Capsid and Nucleocapsid. Matrix Protein, located at the N-terminus of the Gag polyprotein, is usually myristylated during protein translation, prior to the later events of virus assembly. The myristate moiety is believed to be sequestered within the Matrix Protein during protein translation and later facilitates membrane binding upon exposure resulting from conformational changes. Essential functions attributed to the Matrix Protein of lentiviruses include targeting newly synthesized Gag precursor proteins to the site of virus assembly by binding with cellular components such as phosphatidylinositides. In the mature virus particle, the Matrix Protein provides internal structure to the virion within the capsid, but is not exposed at the surface of the particle. Based on studies with HIV, it is postulated that FIV Matrix Protein may also serve additional functions, including nuclear localization of the viral core upon entry of the virus into a new host cell.

**Synonyms:**

Gag polyprotein, Feline Immunodeficiency Virus Matrix Protein p15

**Product images:**

Western blot using affinity purified anti-FIV Matrix Protein p15 to detect p15 in the culture supernatant of FIV-infected feline CrFK cells (lane 2, arrowhead). Lane 1 is an uninfected control. Virions were enriched by ultracentrifugation, lysed, resolved