



Anti-ENV (internal region) polyclonal antibody (DPAB21990)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit Anti-ENV Polyclonal Antibody
Target	ENV
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids from an internal region of FIV Matrix Protein p15.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Virus
Purification	This affinity purified antibody is directed against FIV Matrix Protein p15. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Conjugate	Unconjugated
Applications	WB, ELISA
Format	Liquid (sterile filtered)
Concentration	1.22 mg/mL by UV absorbance at 280 nm
Size	100 µg
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative	None

Storage	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for sever
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Ship	Dry Ice
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BACKGROUND

Introduction	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.
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Keywords	FIV matrix protein p15; Rabbit Anti-ENV Polyclonal Antibody; Anti-ENV Polyclonal Antibody; ENV Polyclonal Antibody Rabbit Anti-ENV PAb; Anti-ENV PAb; ENV PAb; Rabbit Anti-ENV Antibody; Anti-ENV Antibody; ENV Antibody
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