



SIV Gag (full length) (DAG-P2112)

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

PRODUCT INFORMATION

Product Overview	SIV GAG full length protein
Antigen Description	<p>The GAG protein is the major structural protein required for virus assembly. It is synthesized as a polyprotein in the cytosol of an infected cell and contains four functional segments: Matrix (MA), Capsid (CA), Nucleocapsid (NC), and p6. The NC region is flanked by two "spacer" segments, denoted SP1 and SP2. The polyprotein is all alpha helical, except the NC region, which is composed of two RNA interacting zinc knuckle domains. GAG is often referred to an "assembly machine" because expression of GAG alone is sufficient to produce budding virus-like particles (VLP's), due to multimerization of roughly 2000 GAG molecules per virion. GAG is cleaved by the protease at multiple sites. The GAG proteins play important roles throughout the viral life-cycle, including the assembly and release of viral particles, their subsequent maturation into infectious virions, and during the events occurring between the release of capsids into newly infected cells and the integration of proviral DNA. During the early steps of the viral life cycle, viral proteins, especially capsid (CA) are in intimate contact with the intracellular environment. Considerable evidence supports the idea that interactions between host cellular proteins and the viral capsid are important for events occurring early in infection, such as the transport of the preintegration complex, uncoating of the capsid, nuclear entry, and integration. Gag capsid (CA) protein can markedly reduce viral fitness, and interactions of CA with host proteins such as cyclophilin A (CypA) and TRIM5alpha can have important effects on viral infectivity.</p>
Species	SIV
Purity	> 90 % by SDS-PAGE.
Conjugate	Unconjugated
Applications	WB SDS-PAGE
Molecular Weight	57 kDa
Reconstitution	The protein should be reconstituted in apyrogenic sterile water or PBS buffer. The reconstituted

solution has to be used immediately.

Format	Lyophilised
Buffer	Preservative: None Constituents: 1% Glycerol
Preservative	None
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 1% Glycerol

BACKGROUND

Introduction	Swine influenza, also called pig influenza, swine flu, hog flu and pig flu, is an infection caused by any one of several types of swine influenza viruses. Swine influenza virus (SIV) or swine-origin influenza virus (S-OIV) is any strain of the influenza f
Keywords	gag protein; SIV GAG