

Avian Influenza A Virus H5N1

H5N1 (Avian Influenza A Virus H5N1) is a highly pathogenic avian influenza virus that primarily infects birds and can cause severe respiratory illness in humans. It spreads mainly through contact with infected poultry and has a high mortality rate in human cases. Key viral proteins, such as **hemagglutinin (HA)** and **neuraminidase (NA)**, are essential for infection. Frequent mutations in HA enable the virus to evade immune defenses, complicating vaccine development.

The H5N1 genome consists of 8 RNA segments encoding 12-13 proteins with a total size of 13.5kb. Key components include HA for viral entry, NA for viral release, and the RNA polymerase complex (PB2, PB1, PA) for replication. Structural proteins like M1 and M2, along with immune-regulatory proteins NS1 and NEP, contribute to its high pathogenicity.

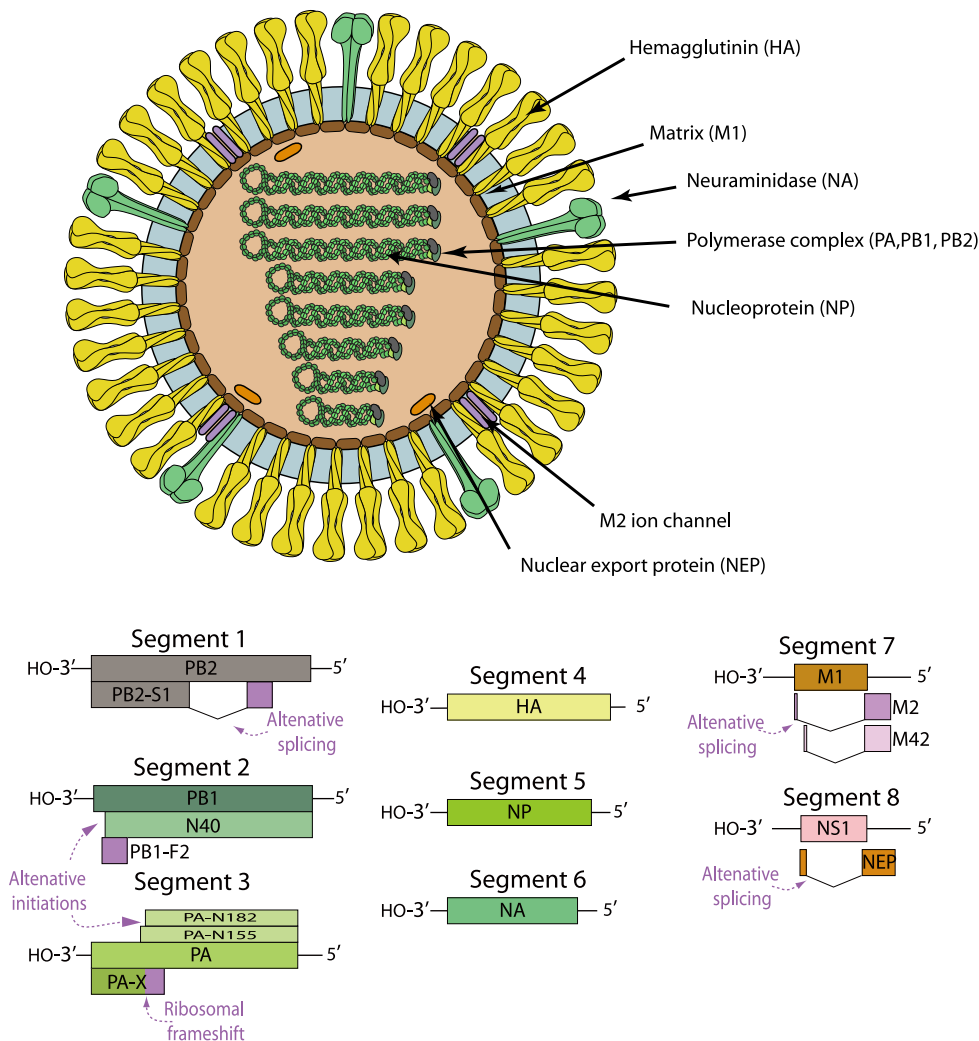


Fig.1 Structure of the H5N1 Influenza Virus

Abinscience provides cutting-edge solutions for studying H5N1, including high-quality antibodies targeting **HA**, **NA**, and other critical viral factors. These tools support vaccine research, immune response studies, and therapeutic advancements, helping researchers stay ahead in combating this public health threat.

Protein	
Catalog No.	Product Name
VK515012	Recombinant Influenza A virus (H9N2) HA/Hemagglutinin Protein, N-His
VK515051	Recombinant Influenza A virus (H5N1) HA/Hemagglutinin Protein, C-His
VK515031	Recombinant Influenza A virus (H7N9) HA/Hemagglutinin Protein, C-His
VK528022	Recombinant Influenza A virus (H3N2) NP/Nucleoprotein Protein, N-GST & C-His
VK560012	Recombinant Influenza A virus (H1N1) Polymerase PA Protein, N-His-SUMO
VK515011	Recombinant Influenza A virus (H1N1) HA/Hemagglutinin Protein, C-His
VK515021	Recombinant Influenza A virus (H2N2) HA/Hemagglutinin Protein, C-His
VK496011	Recombinant Influenza A virus (H7N9) NA/Neuraminidase Protein, C-Strep
VK515041	Recombinant Influenza A virus (H3N2) HA/Hemagglutinin Protein, C-His
VK515012	Recombinant Influenza A virus (H9N2) HA/Hemagglutinin Protein, N-His
VK528011	Recombinant Influenza A virus (H3N2) NP/Nucleoprotein Protein, C-His
VK551011	Recombinant Influenza B virus (Flu B) HA/Hemagglutinin Protein, C-His
VK790011	Recombinant Influenza B virus (Flu D) HE Protein, C-His
VK528012	Recombinant Influenza A virus (H1N1) NP/Nucleoprotein Protein, N-His
Antibody	
Catalog No.	Product Name
VK515013	Anti-Influenza A virus (H5N1) HA/Hemagglutinin Antibody (ABS0387)
VK515076	Research Grade Anti-Influenza A virus HA/Hemagglutinin Broad-Neutralizing Antibody (CR9114)
VK515086	Research Grade Anti-Influenza A virus HA/Hemagglutinin Antibody (MEDI8852)
VK515060	InVivoMAB Anti-Influenza A virus HA/Hemagglutinin Antibody (FLD21.140)
VK515013	Anti-Influenza A virus (H5N1) HA/Hemagglutinin Antibody (ABS0387)
VK528023	Anti-Influenza A virus NP/Nucleoprotein Antibody (ABS1134)
VK496013	Anti-Influenza A virus Neuraminidase/NA protein Antibody (NC41)
VK496023	Anti-Influenza A virus Neuraminidase/NA protein Antibody (ABS1142)
VK528043	Anti-Influenza A virus NP/Nucleoprotein protein Nanobody (ABS1689)
VK560013	Anti-Influenza A virus RNA polymerase complex Nanobody (ABS0711)
VK515010	InVivoMAB Anti-Influenza A virus HA/Hemagglutinin Antibody (ABV0060)
VK515030	InVivoMAB Anti-Influenza A virus HA/Hemagglutinin Antibody (ABV0105)

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