



Rabbit Anti-H5N1 (A/Vietnam/1203/2004) M1 Polyclonal Antibody (DPAB3960)

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

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to H5N1 Matrix Protein M1.
Antigen Description	Influenza virus type A matrix protein, also known as M1, is composed of a 252 amino acid sequence and is type-specific in influenza viruses. It is located inside the viral lipid envelope and plays a key role in virus assembly and replication. M1 can be isolated from particles by removing the envelope with detergents and reducing the pH to 4.0. Influenza viruses are a common and widely spread infectious agent. Like many other viruses, influenza virus are constantly undergoing mutations and thereby avoiding the immune system. The Influenza A Virus M proteins form a continuous shell on the inner side of the lipid bilayer, maintaining the structural integrity of the virus particle through hydrophobic interactions.
Specificity	Reacts with HA and M1 (H5N1). Cross-reactivity to other subtypes not tested
Target	IAV Matrix Protein 1
Immunogen	in vivo expressed M1 (H5N1) protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	IAV
Purification	Immunoaffinity chromatography
Conjugate	Unconjugated
Applications	WB, ELISA
Size	100 µg

Preservative	None
Storage	Store at 4°C; DO NOT FREEZE; Stable for 6 months from the date of shipment. Non-hazardous.

BACKGROUND

Introduction	Influenza A virus subtype H5N1, also known as "bird flu", A(H5N1) or simply H5N1, is a subtype of the influenza A virus which can cause illness in humans and many other animal species. A bird-adapted strain of H5N1, called HPAI A(H5N1) for "highly pathogenic avian influenza virus of type A of subtype H5N1", is the causative agent of H5N1 flu, commonly known as "avian influenza" or "bird flu". It is enzootic in many bird populations, especially in Southeast Asia. One strain of HPAI A(H5N1) is spreading globally after first appearing in Asia. It is epizootic (an epidemic in nonhumans) and panzootic (affecting animals of many species, especially over a wide area), killing tens of millions of birds and spurring the culling of hundreds of millions of others to stem its spread. Most references to "bird flu" and H5N1 in the popular media refer to this strain.
Keywords	M1 (H5N1); H5N1 Matrix Protein M1; Group V; Orthomyxoviridae; Influenzavirus A; Influenzavirus B; Influenzavirus C; Isavirus; Thogotovirus