Data Sheet (Cat.No.TMAY-02853)

TargetMol

Anti-Influenza A H1N1 (A/Puerto Rico/8/34/Mount Sinai) Matrix protein 1/M1 Protein Antibody (5Y810)

Product Details

Ig Type:	Mouse IgG1
Conjugation:	Unconjugated
Clone:	5Y810
Purification:	Protein A

Applications

Application:	ELISA
Recommended	ELISA: 1:1000-1:2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: H1N1 (A/Puerto Rico/8/34/Mount Sinai) M1 protein (TMPY-02286)
Antigen Species:	H1N1

Research Background

The Influenza virus matrix protein 1 (M1) is a matrix protein of the influenza virus. M1 protein has been shown to play a crucial role in virus replication, assembly, and budding. It forms a coat inside the viral envelope. This is a bifunctional membrane/RNA-binding protein that mediates the encapsidation of RNA-nucleoprotein cores into the membrane envelope. M1 consists of two domains connected by a linker sequence. The N-terminal domain has a multi-helical structure. The C-terminal domain also contains an alpha-helical structure. The M1 protein is the most abundant structural protein in influenza A virus particles. M1 protein of the influenza A virus plays multiple roles in virion assembly and infection. M1 protein was a candidate antigen for a broad-spectrum influenza virus vaccine and the adjuvant chitosan significantly improved the efficacy of the M1 vaccine.

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