

Anti-Influenza A virus nucleoprotein
Mouse monoclonal antibody

Subclass: IgG2a/k

PRODUCT NO.

HYB 156-01

Clone: 5D8

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

ANTIGEN

Influenza viruses are common and highly infectious human pathogens. They are constantly mutating to modify their antigenicity and avoid elimination by immunity to previous generations of virus. The nucleoprotein of influenza A virus is a basic, phosphorylated multimeric protein consisting of 498 aa subunits that encapsidate the viral RNA genome to form a ribonucleoprotein particle (1).

IMMUNOGEN

Unpurified influenza A virus (H1N1 A/PR/8/34) for primary intranasal immunization, boosted intravenously with purified influenza A virus disrupted with Triton X-100 for 45 min at 37°C (2).

SPECIFICITY

HYB 156-01 is specific for influenza A virus nucleoprotein and does not cross-react with influenza B virus (2).

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

HYB 156-01 is suitable as capture antibody in a sandwich ELISA for influenza A virus, using HYB 156-01B (biotinylated) for detection (2).

HYB 156-01 reacts with influenza A-infected, acetone-fixed VERO cells in immunofluorescence cytochemistry.

CULTURE MEDIUM

Dulbecco's modified Eagle's medium with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female BALB/c mice were immunized intranasally with 50-100 haemagglutination units of unpurified virus and boosted intravenously 2 months later with 10 µg of purified virus.

APPLICATION

Method	Usability	References
ELISA	Yes	2
Immunoblotting	No	2
Immunohistochemistry	Yes	

REFERENCES

1. Portela A, Digard P (2002) The influenza virus nucleoprotein: a multifunctional RNA-binding protein pivotal to virus replication. J Gen Virol 83:723-734.

2. Glikmann G, Mordhorst CH, Koch C (1995) Monoclonal antibodies for the direct detection of influenza-A virus by ELISA in clinical specimens from patients with respiratory infections. Clin Diagn Virol 3:361-369.

CONDITIONS

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