

**Anti-Influenza B virus nucleoprotein
Mouse monoclonal antibody**

Subclass: IgG2a/k

PRODUCT NO.	HYB 116-02
PRESENTATION	Preparation: Protein-A purified Content: Available in 200 µL and 1 mL volumes, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C
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 B virus is a basic, phosphorylated multimeric protein consisting of 560 aa subunits that encapsidate the viral RNA genome to form a ribonucleoprotein particle (1).
IMMUNOGEN	Unpurified influenza B virus (B/Lee/40) for primary intranasal immunization, boosted intravenously with purified influenza B virus disrupted with Triton X-100 for 40 min at 37°C (2).
SPECIFICITY	HYB 116-02 reacts with influenza B virus nucleoprotein as demonstrated by immunoblotting after SDS-PAGE. HYB 116-02 does not cross-react with influenza A virus (2).
EPI TOPE SPECIFICITY	Epitope differs from HYB 116-03 as determined by inhibition ELISA
REACTIVITY	HYB 116-02 is suitable as capture antibody in combination with biotinylated HYB 116-03 as detecting antibody in sandwich ELISA for influenza B virus (2). HYB 116-02 reacts with influenza B-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	Dilution guideline	References
ELISA	Yes		2
Immunoblotting	Yes	1/20	2
Immunohistochemistry	Yes	1/1000	

The dilution guideline for ELISA is based on use as capture antibody. The antibody should be coated onto microwells at a minimum protein concentration of 5 µg/mL.

REFERENCES

- Portela A, Digard P (2002) The influenza virus nucleoprotein: a multifunctional RNA-binding protein pivotal to virus replication. *J Gen Virol* 83:723-734.
- Glikmann G, Chen S-N, Mordhorst CH, Koch C (1995) Monoclonal antibodies for the rapid diagnosis of influenza-B virus infections by ELISA: production and characterization. *Clin Diagn Virol* 4:27-42.

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.