

**Anti-Pneumolysin  
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

**HYB 041-01**

Clone: 1F11

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

Pneumolysin (pneumococcal hemolysin) is an intracellular protein produced by all strains of *S. pneumoniae* (1) and is a cytoplasmic cholesterol-dependent cytolysin forming large pores in cholesterol-containing membranes and are therefore cytotoxic to mammalian cells (2). The molecular weight of Pneumolysin is approximately 53 kDa.

IMMUNOGEN

Pneumolysin

SPECIFICITY

HYB 041-01 reacts specifically with Pneumolysin from at least 9 different types of pneumococcal strains when tested by SDS-PAGE and WB. The tested pneumococcal types were 5, 6A, 11A, 11F, 12B, 15F, 19A, 25F and 35A.

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

HYB 041-01 reacts well in ELISA with coated pneumococcal extract. Excellent detection of pneumolysin is seen on WB from SDS-PAGE separated pneumococcal strains.

CULTURE MEDIUM

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

FUSION PARTNER

X63.Ag8.653

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Yes	
Immunohistochemistry	Not determined	

REFERENCES

1. Kalin M, Kanclerski K, Granstrom M, Mollby R (1987) Diagnosis of Pneumococcal Pneumonia by Enzyme-Linked Immunosorbent Assay of Antibodies to Pneumococcal Hemolysin (Pneumolysin). *J Clin Microbiol* 25:226-229.
2. Gilbert RJC (2002) Pore-forming toxins. *Cell Mol Life Sci* 59:832-844.

**CONDITIONS**

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