

PRODUCT SPECIFICATION

PS-0129 v01

Anti-Surfactant protein D (human, hSP-D)

Mouse monoclonal antibody

Clone: 10B2

Subclass: IgG2a/k

CAT. NO. **HYB 246-04**

SPECIFICITY HYB 246-04 is specific for SP-D from amniotic fluid, serum and bronchioalveolar lavage. HYB 246-04

does not influence SP-D's binding to carbohydrates, but block binding to GP-340.

IMMUNOGEN Native human SP-D purified from late pregnancy amniotic fluid

TESTED APPLICATIONS ELISA, WB

SPECIES REACTIVITY

(POSITIVE)

Human

SPECIES REACTIVITY

(NEGATIVE)

Not determined

EPITOPE SPECIFICITY Epitope is localized within the C-terminal neck CRD (carbohydrate recognition domain) of SP-D

PRESENTATION

Content: Available in 400 µL and 1 mL size.1 mg/mL +/- 15%. See Certificate of Analysis for details.

Preparation: Protein-A purified

Form: Liquid

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.

APPLICATION ELISA: HYB 246-04 can be used in ELISA (1, 2, 3).

WB: HYB 246-04 can be used in Western blotting (1).

TARGET Surfactant protein D (SP-D) is synthesized and secreted by lung epithelial cells. It belongs to group III of

the family of C-type lectins and members of this group has overall structure consisting of multiple globular 'head' regions linked by triple-helical, collagen-like, strands. This group also includes SP-A and the serum proteins mannan-binding protein, conglutinin and collectin-43, all of which have been shown to bind to the C1q receptor found on a wide variety of cells. Both SP-D and SP-A have been shown to enhance oxygen radical production by alveolar macrophages. The serum concentration is approximately 700 ng/ml

in healthy individuals (1).

REFERENCES

1. Leth-Larsen R, Nordenbaek C, Tornoe I, Moeller V, Schlosser A, Koch C, Teisner B, Junker P, Holmskov U (2003) Surfactant protein D (SP-D) serum levels in patients with community-acquired

pneumonia. Clinical Immunology 108:29-37.

2. Leth-Larsen R, Garred P, Jensenius H, Meschi J, Hartshorn K, Madsen J, Tornoe I, Madsen OH, Sørensen G, Crouch E, Holmskov U (2005) A common Polymorphism in the SFTPD Gene Influences Assembly, Function, and Concentration of Surfactant Protein D. J Immunol 174:1532-1538.

3. Sorensen GL, Hoegh SV, Leth-Larsen R, Thomsen TH, Floridon C, Smith K, Kejling K, Tornoe I, Crouch EC, Holmskov U (2009) Multimeric and trimeric subunit SP-D are interconvertible structures with distinct ligand interaction. Mol Immunol 46:3060-3069.

CONDITIONS

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