

**Anti-Surfactant protein D (human, hSP-D)**
**Mouse monoclonal antibody, biotinylated  
HYB 246-04B**

 Subclass: IgG<sub>2a</sub>/k

Clone: 10B2

PRODUCT NO.

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
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:	150 µL, 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Biotinylated
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl and 15 mM sodium azide
Storage:	4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION	<b>ELISA:</b> HYB 246-04 can be used in ELISA
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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.
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**REFERENCES**
**CONDITIONS**

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