

**Anti Surfactant protein D (human, hSP-D)
mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

HYB 245-01

PRESENTATION

Preparation: Protein-A purified
 Content: Available in 200 µL and 1 mL, 1 mg/mL
 Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl
 Storage: In the dark at 4-8°C

ANTIGEN

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 88 ng/ml in healthy individuals (2).

IMMUNOGEN

Recombinant neck CRD SP-D

SPECIFICITY

HYB 245-01 is specific for human SP-D

EPI TOPE SPECIFICITY

Not determined

REACTIVITY

In immunohistochemical staining on paraffin embedded tissues, HYB 245-01 reacts specifically with SP-D. Immunoreactivity can be found in epithelial cells of the lung, skin, small intestine, esophagus, gall-bladder, kidney and urinary bladder.
 In Western blotting after SDS-PAGE HYB 245-01 reacts strongly with SP-D, both in reduced and non-reduced forms.
 HYB 245-01 can be used for ELISA with Ca⁺⁺ present in the buffer.

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 i.p. with immunogen adsorbed onto Al(OH)₃

APPLICATION

| Method | Usability | Dilution guideline | References |
|----------------------|-----------|--------------------|------------|
| ELISA | Yes | 1:250 | |
| Immunoblotting | Yes | 1:20,000 | 3,6 |
| Immunohistochemistry | Yes | 1:800 | 2,3,6 |

The dilution guideline for ELISA is based on use as detection antibody for recombinant SP-D coated at 0.5 µg/mL. Users should determine the optimal dilutions for their own purposes.

REFERENCES

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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.



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PRODUCT SPECIFICATION

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