

Anti-Surfactant protein A (human, hSP-A)
Mouse monoclonal antibody

 Subclass: IgG₁/k

CAT. NO.

HYB 238-04

Clone: 6F10

SPECIFICITY	HYB 238-04 is specific for human pulmonary SP-A.
IMMUNOGEN	Native SP-A purified from bronchioalveolar lavage from proteinosis patients
TESTED APPLICATIONS	ELISA, WB, IHC-P
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	Not determined

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	<p>ELISA: HYB 238-04 reacts strongly with SP-A when tested in ELISA with SP-A directly coated onto the microtiter well.</p> <p>WB: In Western blotting after SDS-PAGE HYB 238-04 reacts with reduced forms of SP-A and weaker with non-reduced forms. A dilution guideline of 1/1000 has proved successful (2).</p> <p>IHC: In immunohistochemical staining from paraffin embedded tissue samples, HYB 238-04 reacts specifically with human SP-A. Immunoreactivity is seen with alveolar type II cells, nonciliated bronchial cells and a subset of alveolar macrophages. No reactivity in samples from pancreas, intestines, thymus, prostate gland, or the peritoneal cavity lining cells (1, 2).</p>
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TARGET	<p>Surfactant protein A (SP-A) 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-D 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 45 ng/ml in health.</p>
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REFERENCES	<ol style="list-style-type: none"> Holmskov UL (2000) Collectins and collectin receptors in innate immunity. APMIS Suppl 100:1-59. Madsen J, Tornøe I, Nielsen O, Koch C, Steinhilber W, Holmskov U (2003) Expression and localization of lung surfactant protein A in human tissues. Am J Respir Cell Mol Biol 29:591-7.
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