



Peninsula Laboratories, LLC

A Member of the Bachem Group

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Biotinylated Monoclonal Antibody To Rat SP-D Surfactant Protein D

Surfactant protein D (SP-D) is a Ca^{2+} -dependent carbohydrate-binding protein and is structurally similar to other C-type mammalian lectins, such as conglutinin and SP-A. It has a molecular size of approximately 43kDa in its reduced state, 620kDa in non-dissociating conditions. SP-D enhances the production of oxygen radicals by rat alveolar macrophages and regulates some actions of SP-A, which is the most abundant surfactant protein. SP-D is synthesized and secreted by alveolar epithelial type II cells..

Product Number:	T-3203
Clone:	II E11
Host species, isotype:	Mouse IgG2b
Quantity:	200 μ g
Format:	Affinity purified, biotinylated, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer, no preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in Western Blots. Approximate working dilution for IHC: Frozen sections: 1 μ g/ml (1:400) Paraffin sections: not tested Optimal dilutions should be determined by the end user. Suggested positive control: Rat lung.
Immunogen:	Purified rat surfactant protein D from bronchoalveolar lavage
Antigen, epitope:	II E11 recognizes a conformational epitope of SP-D.



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Antigen distribution:

Tissue sections: alveolar type II cells, alveolar macrophages, two types of Clara cells SP-A+ and SP-A-, and extracellular deposits. Alveolar type III cells stain negative.

No reaction on rat skin, colon, kidney and liver

Specificity:

Rat: II E11 recognizes a conformational epitope of SP-D. No cross reactivity with rat SP-A.

Other species: human positive.

Selected references

M. KASPER, S. Albrecht, H. Grossmann, M. Grosser, D. Schuh, M. Müller:
Monoclonal Antibodies to Surfactant Protein D: Evaluation of Immunoreactivity in Normal Rat Lung and in a Radiation-Induced Fibrosis Model. *Exp. Lung Res* **21**:577-588 (1995)

For in vitro research only. This product contains no preservative. Store frozen after reconstitution or add preservative as needed.