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## **Biotinylated Monoclonal Antibody To Rat SP-D Surfactant Protein D**

Surfactant protein D (SP-D) is a  $\text{Ca}^{2+}$ -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..

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<b>Product Number:</b>	T-3203 (Lot 03PB0608)
<b>Clone:</b>	II E11
<b>Host species, isotype:</b>	Mouse IgG2b
<b>Quantity:</b>	200 $\mu$ g
<b>Format:</b>	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.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C  Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC); has been described to work in Western Blots.  <b>Approximate working dilution for IHC:</b> Frozen sections: 1 $\mu$ g/ml (1:400) Paraffin sections: not tested  Optimal dilutions should be determined by the end user. Suggested positive control: Rat lung.  Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	Purified rat surfactant protein D from bronchoalveolar lavage
<b>Antigen, epitope:</b>	II E11 recognizes a conformational epitope of SP-D.

**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.

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### **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.