



## Peninsula Laboratories, LLC

A Member of the Bachem Group

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### 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. Clone SPDE is a reclone from clone IIE11, with identical reactivity.

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|-------------------------------|---|
| <b>Product Number:</b>        | T-3208  |
| <b>Clone:</b>                 | IIE11 (SPDE)  |
| <b>Host species, isotype:</b> | Mouse IgG2b   |
| <b>Quantity:</b>              | 250 $\mu$ g   |
| <b>Format:</b>                | Affinity purified, lyophilized  |
|                               | Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.5mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.09% sodium azid as a preservative.   |
| <b>Stability:</b>             | 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.<br><b>Approximate working dilution for IHC:</b><br>Frozen sections: 2 $\mu$ g/ml (1:250)<br>Paraffin sections: does not react on routinely processed paraffin sections.<br>Optimal dilutions should be determined by the end user.<br>Suggested positive control: Rat lung. <b>Immunogen:</b> Purified rat surfactant protein D from bronchoalveolar lavage |
| <b>Antigen, epitope:</b>      | SPDE recognizes a conformational epitope of SP-D.   |
| <b>Antigen distribution:</b>  | <b>Tissue sections:</b> 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  |



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**Specificity:**

**Rat:** SP-D.

**Other species:** Positive on human tissues.

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### Selected references

M. KASPER et al.: 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. Caution: this product contains sodium azide, a poisonous and hazardous substance.