



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-3205
Clone:	VI F11
Host species, isotype:	Mouse IgG1, kappa light chain
Quantity:	200µg
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), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a 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 ELISA, Western Blots . Approximate working dilution for IHC: Frozen sections: 2µg/ml (1:200) for rat cryosections Paraffin sections: not tested Optimal dilutions should be determined by the end user. Suggested positive control: Rat lung. Immunogen: Purified SP-D from bronchoalveolar lavage.
Antigen, epitope:	Surfactant Protein D, the epitope is localized in the lectin domain 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: SP-D. Other species: human positive



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Selected references

M. KASPER. 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. Caution: this product contains thimerosal, a poisonous and hazardous substance.