

**MOUSE ANTI-SURFACTANT PROTEIN D (SP-D)  
LECTIN DOMAIN  
MONOCLONAL ANTIBODY**

**CATALOG NUMBER:** MAB3132

**LOT NUMBER:**

**QUANTITY:** 200 µg

**SPECIFICITY:** Surfactant protein D is a Ca<sup>2+</sup> dependent carbohydrate binding protein with a structure similar to other C-type mammalian lectins. Its molecular weight is 620 kDa under non-reducing conditions and 43 kDa under reducing conditions. The function of SP-D is not clearly defined. SP-D enhances the production of oxygen radicals in alveolar macrophages and regulates some actions of SP-A.

MAB3132 recognizes an epitope localized in the lectin domain of rat surfactant protein D (SP-D).

**IMMUNOGEN:** Purified rat surfactant protein D from bronchoalveolar lavage.

**ISOTYPE:** IgG<sub>1</sub>

**APPLICATIONS:** Immunohistochemistry on snap frozen or paraffin embedded tissue. Suggested working dilution for fresh rat tissue is 1:400 and for fresh human tissue is 1:20. Fixation: acetone 5 min at 4°C, paraformaldehyde, paraffin. Tissue pretreatment: microwave treatment 2 x 5 min at 750 W for paraffin tissues.  
Western blot  
ELISA: as capture antibody  
Optimal working dilutions must be determined by the end user.

**ANTIGEN DISTRIBUTION:** Reacts with alveolar type II cells, alveolar macrophages, type types of Clara cells SP-A+ and SP-A-, and extracellular deposits. Alveolar type III cells are negative. No reaction on rat skin, colon, kidney or liver.

**SPECIES REACTIVITIES:** Rat and human. Other species not yet tested.

**FORMAT:** Purified immunoglobulin from culture supernatant.

**PRESENTATION:** Lyophilized from buffer containing 5 mg/mL BSA and 0.09% sodium azide. Reconstitute with 500 µL of sterile distilled water.

**STORAGE/HANDLING:** Maintain lyophilized material at 2-8°C for up to 12 months after date of receipt. After reconstitution, maintain at -20°C in undiluted aliquots for up to 6 months. Avoid repeated freeze/thaw cycles.

**REFERENCE:** *Exp. Lung Res* (1995) **21**:577-588.

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