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

Product Number:	T-3208 (Lot 02PO0807)
Clone:	IIE11 (SPDE)
Host species, isotype:	Mouse IgG2b
Quantity:	250µg
Format:	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.
Stability:	Stock solution or aliquots thereof: 1 year at -20°C. Avoid repetated thawing and freezing
Applications:	Tested for immunohistochemistry (IHC); has been described to work in Western blots.
	Approximate working dilution for IHC: Frozen sections: 2µg/ml (1:250) Paraffin sections: does not react on routinely processed paraffin sections.
	Optimal dilutions should be determined by the end user.
	Suggested positive control: Rat lung.
	Please see **www.bma.ch** for protocols and general information.
Immunogen:	Purified rat surfactant protein D from bronchoalveolar lavage
Antigen, epitope:	SPDE 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:** SP-D.
	Other species: Positive on human tissues, negative on pig tissues

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.