

Product datasheet for **BM4083B**

Sftpd (conformational epitope) Mouse Monoclonal Antibody [Clone ID: IIE11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	IIE11
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on frozen sections (1 µg/ml; 1:400). Immunohistochemistry on paraffin sections (1:100 freshly prepared for staining rat tissues). Fixation: Acetone 5 min 4 °C, paraformaldehyde / paraffin. Tissue pretreatment: microwave treatment 2 x 5 min at 750 W). Western Blot. Suggested positive control: Rat lung.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Purified rat surfactant protein D from bronchoalveolar lavage
Specificity:	II E11 recognizes a conformational epitope of SP-D. No cross reactivity with rat SP-A. 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.
Formulation:	Phosphate buffered saline pH 7.2, (PBS), 5 mg/ml bovine serum albumin (BSA) as a stabilizer, no preservative. Label: Biotin State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore by adding 0.5 ml distilled water.
Concentration:	0.4 mg/ml
Conjugation:	Biotin
Storage:	Store lyophilized at 2 - 8 °C and reconstituted at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	surfactant protein D



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Database Link: [Entrez Gene 6441 Human](#)[Entrez Gene 25350 Rat](#)
[P35248](#)

Background: Surfactant protein D (SP-D) is a Ca²⁺-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 43 kDa in its reduced state, 620 kDa 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.

Synonyms: Lung surfactant protein D, SP-D, PSP-D, PSPD, SFTP4, Collectin-7, COLEC7