

Datasheet: MCA2725

BATCH NUMBER 1511

Description:	MOUSE ANTI PIG SURFACTANT PROTEIN D
Specificity:	SURFACTANT PROTEIN D
Other names:	SP-D
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1.7
Isotype:	IgG1
Quantity:	0.25 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1µg/ml
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.

TRIS/EDTA buffer pH8.0 is recommended for this purpose.

Target Species	Pig
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Purified porcine surfactant protein D.
External Database Links	<p>UniProt: Q9N1X4 Related reagents</p> <p>Entrez Gene: 397198 SFTPD Related reagents</p>
RRID	AB_10544550
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the P3X63Ag.8.653 myeloma cell line.
Specificity	Mouse anti Porcine surfactant protein D antibody, clone 1.7 detects porcine surfactant protein D (pSP-D), a ~138 kDa member of the collectin family of proteins. Surfactant protein D is thought to play a significant role in the innate immune response against microorganisms within the lungs and at other mucosal surfaces. SP-D is a multifunctional protein which binds selectively to saccharides and lipids on microbial surfaces promoting antimicrobial responses and regulating surfactant lipid homeostasis. SP-D expression is induced in lung surfactant in response to aerogenous bacterial infection, and upon binding to bacteria, promotes phagocytosis and antigen presentation by dendritic cells. Recent studies suggest that pSP-D could serve as a serum biomarker specific for bronchopneumonia in pigs.
Histology Positive Control Tissue	Porcine lung tissue
Western Blotting	MCA2725 detects a band of approximately 138kDa.
References	<ol style="list-style-type: none"> 1. Soerensen, C.M. <i>et al.</i> (2005) Pulmonary infections in swine induce altered porcine surfactant protein D expression and localization to dendritic cells in bronchial-associated lymphoid tissue. Immunology. 115 (4): 526-35. 2. Weber, B. <i>et al.</i> (2019) Lung injury after asphyxia and hemorrhagic shock in newborn piglets: Analysis of structural and inflammatory changes. PLoS One. 14 (7): e0219211.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may</p>

denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M367373:200529'

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