

Product Datasheet

Surfactant Protein A Antibody

NBP2-12928

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-12928

Surfactant Protein A Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Description	Novus Biologicals Goat Surfactant Protein A Antibody (NBP2-12928) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-Surfactant Protein A Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	653509
Gene Symbol	SFTPA1
Species	Human, Mouse
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Bovine. Use in Mouse reported in scientific literature (PMID:32157214).
Specificity/Sensitivity	This antibody is expected to recognize all the reported isoforms of A1 (NP_005402.3; NP_001087239.2; NP_001158117.1; NP_001158118.1) and A2 (NP_001092138.1), Reported variants represent identical protein: NP_001158116.1, NP_005402.3, NP_001158119.1
Immunogen	Peptide with sequence C-HLDEELQATLHDFR corresponding to internal region according to NP_005402.3, NP_001087239.2, NP_001158117.1, NP_001158118.1, NP_001092138.1.

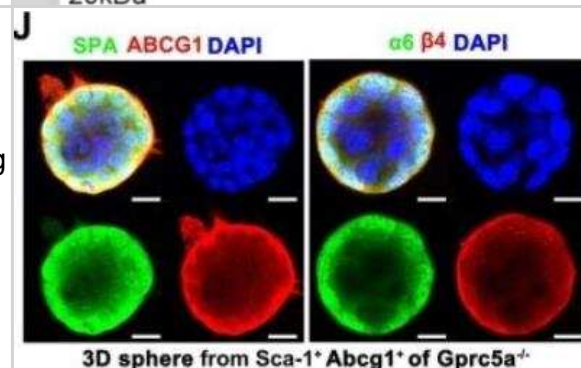
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 0.01 ug/ml, Immunohistochemistry 5 ug/mL, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 5 ug/mL, Peptide ELISA Detection limit 1:32000
Application Notes	WB: Approx. 30 kDa band observed in human lung lysates (calculated MW of 27.7 kDa band according to NP_001087239.2). Use in Immunocytochemistry/Immunofluorescence reported in scientific literature (PMID:32157214).

Images

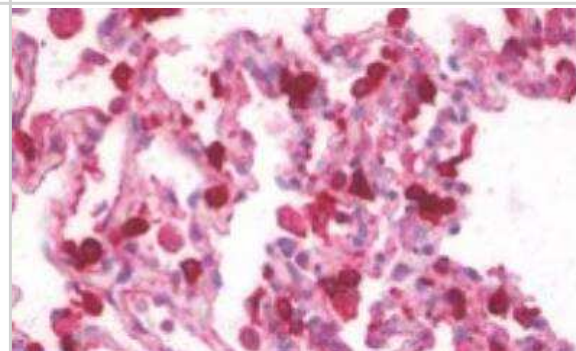
Western Blot: Surfactant Protein A Antibody [NBP2-12928] - Staining of Human Lung lysate (35 ug protein in RIPA buffer). Antibody at 0.01 ug/mL. Primary incubation was 1 hour. Detected by chemiluminescence.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa

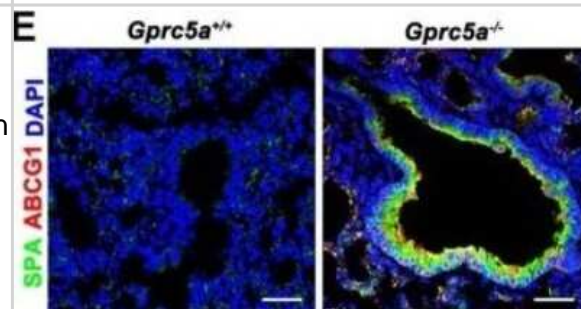
Immunocytochemistry/Immunofluorescence: Surfactant Protein A Antibody [NBP2-12928] - Sca-1+Abcg1+cells are the cancer stem cell-like subset of AT2 cells. Confocal analysis of SPA/ABCG1 and alpha6/beta4 in spheroid of Sca-1+Abcg1+cells isolated from KO mice, (Bar = 10 um). Image collected and cropped by CiteAb from the following publication (www.nature.com/articles/s41388-020-1251-2) licensed under a CC-BY license.



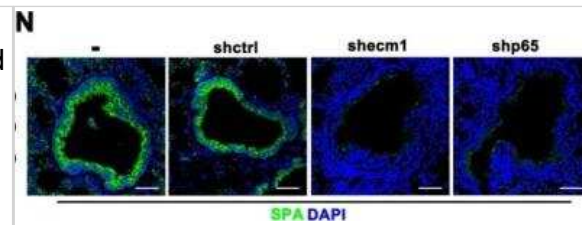
Immunohistochemistry-Paraffin: Surfactant Protein A Antibody [NBP2-12928] - Staining of paraffin embedded Human Lung. Antibody at 5 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



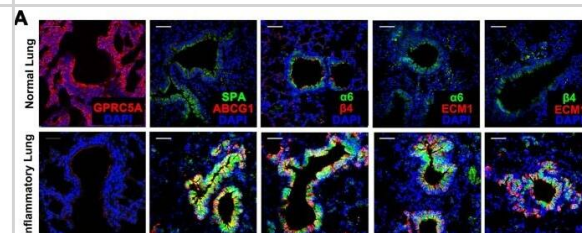
Immunocytochemistry/Immunofluorescence: Surfactant Protein A Antibody [NBP2-12928] - GPRC5A deficiency promotes the phosphorylation and acetylation of NF-κB and mediates the elevation of ABCG1 expression in AT2 cells. IF analysis of ABCG1 in the S/TB region of lung tissue from WT or KO mice, (Bar = 100 um). Image collected and cropped by CiteAb from the following publication (www.nature.com/articles/s41388-020-1251-2) licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: Surfactant Protein A Antibody [NBP2-12928] - GPRC5A deficiency promotes NF- κ B-mediated ECM1 expression elevation in Lgr5 cells and secreted ECM1-induced AT2 cell enrichment in the S/TB region. IF analysis of AT2 SPA (Surfactant Protein A) cells in the lung S/TB region after KO:Lgr5 cells with ECM1 or p65 knockdown and injected into NOD/SCID mice through tail vein, (Bar = 100 μ m); Data were collected from three independent experiments with triplicate samples. **P < 0.01; ***P < 0.001. Image collected and cropped by CiteAb from the following publication (www.nature.com/articles/s41388-020-1251-2) licensed under a CC-BY license.



Immunocytochemistry/ Immunofluorescence: Surfactant Protein A Antibody [NBP2-12928] - ECM1- α 6 β 4-ABCG1 axis is enriched in the S/TB region of the lungs in patients with pneumonia. IF analysis of GPRC5A, SPA/ABCG1, α 6/ β 4, α 6/ECM1 & β 4/ECM1 in normal or pneumonic lung tissue samples (a) & the calculation of positive or dual-positive cells in the S/TB region (b), (Bar = 100 μ m); c Graphical abstract of the study: GPRC5A deficiency promotes the activation of NF- κ B & subsequent expression & secretion of ECM1; the secreted ECM1 interacts with α 6 β 4 of AT2 cells & induces the activation of NF- κ B, which induces the expression of ABCG1. AT2 cells with ABCG1 expression are one of the originating cell populations of lung cancer. Data were collected from three independent experiments with triplicate samples. **P < 0.01; ***P < 0.001. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32157214>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Naumann M, Hornung F, Eiserloh S et al. Investigating alveolar macrophages in an human ex vivo precision cut lung slice model of SARS-CoV-2 infection using Raman spectroscopy—A case study *Clinical and Translational Medicine* 2025-08-31 [PMID: 40887824]

Yin H, Jiang Z, Feng X et Al. Identification of Sca-1+Abcg1+ bronchioalveolar epithelial cells as the origin of lung adenocarcinoma in Gprc5a-knockout mouse model through the interaction between lung progenitor AT2 and Lgr5 cells *Oncogene* 2020-03-10 [PMID: 32157214] (IF, Mouse)

Kosmider B, Lin C, Karim L et al. Mitochondrial dysfunction in human primary alveolar type II cells in emphysema *EBioMedicine* 2019-08-01 [PMID: 31383554] (IHC-P, Human)

Benlhabib H, Mendelson CR. Epigenetic regulation of surfactant protein A gene (SP-A) expression in fetal lung reveals a critical role for Suv39h methyltransferases during development and hypoxia. *Mol Cell Biol* 2011-05-01 [PMID: 21402781]



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Products Related to NBP2-12928

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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