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SCGB3A2 Rabbit pAb

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Catalog # AP56644

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96PL1
Predicted	Rat, Pig, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	10161
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SCGB3A2
Epitope Specificity	51-93/93
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Uteroglobin-related protein 1 is a 93-amino acid secretory protein that is mainly expressed in lung Clara-like epithelial cells, with low levels of expression in the thyroid. The homodimeric UGRP1 may play an anti-inflammatory role in lung inflammation, though the mechanism is still unknown. A macrophage scavenger receptor with collagenous structure (MARCO) acts as a receptor for UGRP1 and may be involved in pathogen clearance in the lung. UGRP1 has a binding site for bacterial lipopolysaccharide (LPS). It is downregulated in antigen-induced inflamed airways, such as allergic asthma, but is upregulated in cystic fibrosis, and interleukin-9 and interleukin-5 modulate UGRP1 expression. UGRP1 may be a therapeutic candidate for treating various sources of lung inflammation

Additional Information

Gene ID	117156
Other Names	Secretoglobin family 3A member 2, Pneumo secretory protein 1, PnSP-1, Uteroglobin-related protein 1, SCGB3A2, PNSP1, UGRP1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SCGB3A2
Synonyms	PNSP1, UGRP1
Function	Secreted cytokine-like protein (PubMed: 12847263). Binds to the scavenger receptor MARCO (PubMed:12847263). Can also bind to pathogens including the Gram-positive bacterium L.monocytogenes, the Gram-negative bacterium P.aeruginosa, and yeast (PubMed:12847263). Strongly inhibits phospholipase A2 (PLA2G1B) activity (PubMed:24213919). Seems to have anti-inflammatory effects in respiratory epithelium (By similarity). Also has anti-fibrotic activity in lung (PubMed:24213919). May play a role in fetal lung development and maturation (PubMed:24213919). Promotes branching morphogenesis during early stages of lung development (PubMed:24213919). In the pituitary, may inhibit production of follicle-stimulating hormone (FSH) and luteinizing hormone (LH) (By similarity).
Cellular Location	Secreted.
Tissue Location	Highly expressed in lung and trachea (PubMed:12175512, PubMed:12406855, PubMed:12847263). Detected throughout the airway epithelium in lung, with slightly higher expression in large airways (PubMed:12406855). Found in lung submucosal gland acinus where it localizes to serous-like cells (PubMed:12406855) Probably expressed in club cells of the bronchioles (PubMed:12847263) Not detected in other tissues tested (PubMed:12847263)

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.