

## SCGB3A2 Protein, Mouse (His, GST)

<b>Cat. No.:</b>	HY-P71605
<b>Synonyms:</b>	Scgb3a2; Pnsp1; Ugrp1; Secretoglobin family 3A member 2; Pneumo secretory protein 1; PnSP-1; Uteroglobin-related protein 1
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	Q920H1 (L22-L139)
<b>Gene ID:</b>	117158
<b>Molecular Weight:</b>	Approximately 43.2 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> LLINRLPVVD   KLPVPLDDII   PSFDPLKMLL   KTLGISVEHL VTGLKKCVDE   LGPEASEAVK   KLLV I I I CSY   FPGRS LCYVN NLP SFVSVLF   LPMICAYPRD   SKKQTF AFIE   RVFEQSKL           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>SCGB3A2 is a secreted cytokine-like protein that exhibits diverse functions, including binding to the scavenger receptor MARCO and interacting with various pathogens such as the Gram-positive bacterium <i>L.monocytogenes</i>, the Gram-negative bacterium <i>P.aeruginosa</i>, and yeast. Notably, it strongly inhibits phospholipase A2 (PLA2G1B) activity, showcasing its regulatory role in lipid metabolism. SCGB3A2 demonstrates anti-inflammatory effects in respiratory epithelium and exerts anti-fibrotic activity in the lung. It may contribute to fetal lung development and maturation, promoting branching morphogenesis during early stages of lung development. Additionally, in the pituitary, SCGB3A2 is implicated in inhibiting the production of follicle-stimulating hormone (FSH) and luteinizing hormone (LH). The protein exists as a homodimer, linked by disulfide bonds, and can also function as a monomer. Furthermore, SCGB3A2 interacts with APOA1, emphasizing its involvement in diverse physiological processes.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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