

## Anti-Uteroglobin/Scgb1a1 Antibody Picoband™

Catalog Number: A02201-1

### About Scgb1a1

Uteroglobin, also known as secretoglobin family 1A member 1 (SCGB1A1), is a protein that in humans is encoded by the SCGB1A1 gene. This gene encodes a member of the secretoglobin family of small secreted proteins. The encoded protein has been implicated in numerous functions including anti-inflammation, inhibition of phospholipase A2 and the sequestering of hydrophobic ligands. Defects in this gene are associated with a susceptibility to asthma.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-Uteroglobin/Scgb1a1 Antibody Picoband™   |
| Reactive Species     | Mouse   |
| Description          | Boster Bio Anti-Uteroglobin/Scgb1a1 Antibody Picoband™ catalog # A02201-1. Tested in ELISA, IHC, WB applications. This antibody reacts with Mouse.  |
| Application          | ELISA, IHC, WB  |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .  |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |
| Host                 | Rabbit  |
| Uniprot ID           | Q06318  |

### Technical Details

|                               |  |
|-------------------------------|--|
| Immunogen                     | E. coli-derived mouse Uteroglobin recombinant protein (Position: D22-F96).   |
| Predicted Reactive Species    | Human  |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity              | No cross-reactivity with other proteins.   |
| Isotype                       | Rabbit IgG   |
| Form                          | Lyophilized  |
| Concentration                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.  |
| Purification                  | Immunogen affinity purified.   |

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.5ug/ml

Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml

Direct ELISA, 0.1-0.5ug/ml

## Anti-Uteroglobin/Scgb1a1 Antibody Picoband™ (A02201-1) Images

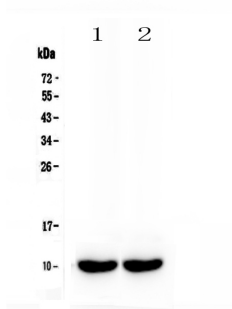


Figure 1. Western blot analysis of Uteroglobin using anti-Uteroglobin antibody (A02201-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: mouse lung tissue lysate,

Lane 2: mouse lung tissue lysate.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Uteroglobin antigen affinity purified polyclonal antibody (Catalog # A02201-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Uteroglobin at approximately 10KD. The expected band size for Uteroglobin is at 10KD.

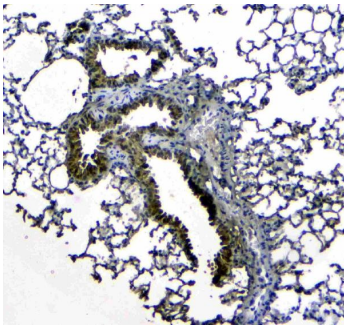


Figure 2. IHC analysis of Uteroglobin using anti-Uteroglobin antibody (A02201-1).

Uteroglobin was detected in paraffin-embedded section of mouse lung tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Uteroglobin Antibody (A02201-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

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