

UGRP1 (M-139): sc-67183

BACKGROUND

Uteroglobin-related protein 1 (UGRP1) 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 down-regulated 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SCGB3A2 (human) mapping to 5q32; Scgb3a2 (mouse) mapping to 18 C-D.

SOURCE

UGRP1 (M-139) is a rabbit polyclonal antibody raised against amino acids 1-139 representing full length UGRP1 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

UGRP1 (M-139) is recommended for detection of UGRP1 of mouse and to a lesser extent, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); may cross-react with UGRP2.

Suitable for use as control antibody for UGRP1 siRNA (h): sc-61754, UGRP1 siRNA (m): sc-61755, UGRP1 shRNA Plasmid (h): sc-61754-SH, UGRP1 shRNA Plasmid (m): sc-61755-SH, UGRP1 shRNA (h) Lentiviral Particles: sc-61754-V and UGRP1 shRNA (m) Lentiviral Particles: sc-61755-V.

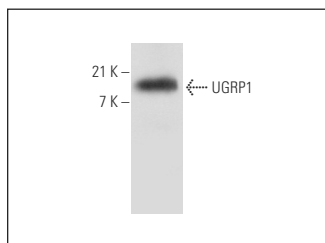
Molecular Weight of UGRP1: 14 kDa.

Positive Controls: human lung extract: sc-363767.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



UGRP1 (M-139): sc-67183. Western blot analysis of UGRP1 expression in human lung tissue extract.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.



Try **UGRP1 (1B2): sc-517117**, our highly recommended monoclonal alternative to UGRP1 (M-139).