

PGRP-S (m): 293T Lysate: sc-127321

BACKGROUND

Peptidoglycan recognition proteins (PGRPs) are molecules that recognize peptidoglycan, a large component in bacterial cell walls. In insects, PGRPs activate antimicrobial pathways, and in mammals PGRPs function as anti-bacterial neutrophil proteins. PGRP-L halts bacterial growth by acting as an alanine amidase, an enzyme that hydrolyzes the amide bond of bacterial peptidoglycan. PGRP- α and PGRP- β are also members of the PGRP family that help recognize bacteria by binding to peptidoglycan and Gram Positive Bacteria, but they do not have amidase activity. PGRP-S participates in intracellular killing of Gram Positive Bacteria by stimulating two antimicrobial defense systems, the phenoloxidase cascade and the antimicrobial peptides through toll receptors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Pglyrp1 (mouse) mapping to 7 A3.

PRODUCT

PGRP-S (m): 293T Lysate represents a lysate of mouse PGRP-S transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

PGRP-S (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PGRP-S antibodies. Recommended use: 10-20 µl per lane.

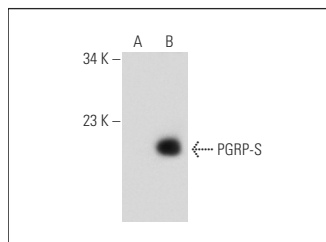
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PGRP-S (G-1): sc-365304 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PGRP-S expression in PGRP-S transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



PGRP-S (G-1): sc-365304. Western blot analysis of PGRP-S expression in non-transfected: sc-117752 (A) and mouse PGRP-S transfected: sc-127321 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.