SANTA CRUZ BIOTECHNOLOGY, INC.

PGRP-Iβ (6D652): sc-71884

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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-Iα and PGRP-Iβ are also members of the PGRP family that help to recognize bacteria by binding to peptidoglycan and Gram-positive bacteria, but they do not have amidase activity. These two PGRPs are expressed in the esophagus and, to a lesser extent, in the tonsils and thymus. PGRP-Iα and PGRP-Iβ are transmembrane proteins of 341 and 373 amino acids, respectively, and they have have at least three highly conserved C-terminal PGRP domains either in the extracellular or in the cytoplasmic (or in both) regions.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PGLYRP4 (human) mapping to 1q21.3; Pglyrp4 (mouse) mapping to 3 F1.

RESEARCH USE

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

SOURCE

PGRP-Iβ (6D652) is a mouse monoclonal antibody raised against amino acids 95-110 of PGRP-Iβ of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

PGRP-Iβ (6D652) is recommended for detection of PGRP-Iβ of mouse, rat, human and porcine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for PGRP-Iβ siRNA (h): sc-62785, PGRP-Iβ siRNA (m): sc-62786, PGRP-Iβ shRNA Plasmid (h): sc-62785-SH, PGRP-Iβ shRNA Plasmid (m): sc-62786-SH, PGRP-Iβ shRNA (h) Lentiviral Particles: sc-62785-V and PGRP-Iβ shRNA (m) Lentiviral Particles: sc-62786-V.

Molecular Weight of PGRP-Iβ: 46 kDa.

STORAGE

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

PROTOCOLS

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