SANTA CRUZ BIOTECHNOLOGY, INC.

BPIL1 (V-18): sc-85305

BACKGROUND

Members of the bactericidal/permeability-increasing protein family have antimicrobial properties and bind lipophilic substances, therefore targeting gram-negative bacteria. The bactericidal permeability increasing protein (BPI) is an antibacterial and endotoxin-neutralizing molecule that is abundant in the granules of polymorphonuclear leukocytes (neutrophil granules). Sharing structural and sequence homologies with BPI, BPIL1 (bactericidal/permeability-increasing protein-like 1) is a 458 amino acid secreted protein that contains the family's common conserved feature of two cysteine residues that are critical for protein function. While BPIL1 is primarily expressed at low levels in tonsil tissue, it has been found to be upregulated in hypertrophic tonsils, suggesting that it may play a role in the pathogenesis of inflamed disease tissue.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BPIL1 (human) mapping to 20q11.21.

STORAGE

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

SOURCE

BPIL1 (V-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of BPIL1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-85305 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BPIL1 (V-18) is recommended for detection of BPIL1 of 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); non cross-reactive with BPIL2 and BPIL3 .

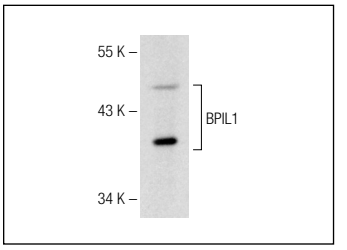
Suitable for use as control antibody for BPIL1 siRNA (h): sc-72658, BPIL1 shRNA Plasmid (h): sc-72658-SH and BPIL1 shRNA (h) Lentiviral Particles: sc-72658-V.

Molecular Weight of BPIL1: 49 kDa.

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



BPIL1 (V-18): sc-85305. Western blot analysis of BPIL1 expression in mouse liver tissue extract.

RESEARCH USE

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