

BPIL3 (N-17): sc-85307

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, BPIL3 (bactericidal/permeability-increasing protein-like 3) is a 453 amino acid secreted protein that contains the family's common conserved feature of two cysteine residues that are critical for protein function. While BPIL3 is primarily expressed at low levels in tonsils, it has been found to be upregulated in hypertrophic tonsil tissue, suggesting that it may play a role in the pathogenesis of inflamed disease tissue.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BPIFB6 (human) mapping to 20q11.21; Bpifb6 (mouse) mapping to 2 H1.

SOURCE

BPIL3 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of BPIL3 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-85307 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BPIL3 (N-17) is recommended for detection of BPIL3 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

BPIL3 (N-17) is also recommended for detection of BPIL3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for BPIL3 siRNA (h): sc-72660, BPIL3 siRNA (m): sc-141733, BPIL3 shRNA Plasmid (h): sc-72660-SH, BPIL3 shRNA Plasmid (m): sc-141733-SH, BPIL3 shRNA (h) Lentiviral Particles: sc-72660-V and BPIL3 shRNA (m) Lentiviral Particles: sc-141733-V.

Molecular Weight of BPIL3: 50 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. 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 or our catalog for detailed protocols and support products.