Data Sheet (Cat.No.TMAB-03192)

Anti-BPIL1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Pig,Horse,Sheep)
Molecular Weight:	Theoretical: 47 kDa. Actual: 50 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: MCF-7 (Human) Cell Lysate at 40 µg Primary: Anti-BPIL1 (TMAB-03192) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 50 kD 2. Sample: B16 (Mouse) cell Lysate at 40 µg Primary: Anti-BPIL1 (TMAB-03192) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 50 kD 3. Sample: Placenta (Mouse) Lysate at 40 µg Primary: Anti-BPIL1 (TMAB-03192) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 50 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human BPIL1
Antigen Species:	Human
Gene ID:	80341
Uniprot ID:	Q8N4F0

Research 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.

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