

DEFB103, Beta-defensin 3

polyclonal antibody

Box 1 | Basic Info

Cat. No.	ABP-PAB-10216
Animal ID	RC40104
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_018661
Amount	100 µg

Alternative Name(s): HBD3, HBP3, DEFB3, HBD-3, HBP-3, DEFB-3

Defensins form a family of microbicidal and cytotoxic peptides which are highly similar in protein sequence. Human beta-defensin 3 (DEFB103) is a nonhemolytic antimicrobial peptide originally isolated from human lesional psoriatic scales and subsequently cloned from human keratinocytes. DEFB103 demonstrates a saltin-sensitive broad spectrum of potent antimicrobial activity against many potentially pathogenic microbes including multiresistant *S. aureus* and vancomycin-resistant *Enterococcus faecium*. Keratinocytes and airway epithelial cells are cellular sources of DEFB103. Tumor necrosis factor alpha and contact with bacteria were found to induce hBD-3 expression. Most likely, DEFB103 is important for the innate epithelial defense of infections by various microorganisms seen in skin and lung.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

N/A

Application:

Tested by peptide-specific ELISA (1:1,000).

Storage:

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Harder J, Bartels J, Christophers E, Schroder JM: Isolation and characterization of human beta -defensin-3, a novel human inducible peptide antibiotic. *J. Biol. Chem.* 276(8): 5707-5713 (2001).