Anti-β-Defensin 3
produced in rabbit, affinity isolated antibody

Catalog Number D2444

Product Description
Anti-β-Defensin 3 is produced in rabbit using as immunogen a synthetic peptide corresponding to residues 23-33 [GIINTLQKYYC] of human β-Defensin 3. The antibody is affinity-purified.

Anti-β-Defensin 3 recognizes human β-Defensin 3. Applications include the detection of β-Defensin 3 by immunoblotting (~5 kDa) and immunohistochemistry.

A novel, nonhemolytic antimicrobial peptide (human β-Defensin 3, hBD-3) was isolated from human lesional psoriatic scales and cloned from keratinocytes. hBD-3 demonstrated a salt-insensitive 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 hBD-3. Tumor necrosis factor α and contact with bacteria were found to induce hBD-3 mRNA expression. hBD-3, therefore, might be important in the innate epithelial defense of infections by various microorganisms seen in skin and lung, such as cystic fibrosis.

Reagent
Supplied as a solution in phosphate buffered saline, containing 0.02% sodium azide.

Antibody concentration: ~1.0 mg/mL

Storage/Stability
For continuous use, store at 2-8 °C for up to three months. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in “frost-free” freezers, is not recommended.

Product Profile
Immunoblotting: a working dilution of 1:500 to 1:1,000 is recommended.

Immunohistochemistry: a working dilution of 1:2 is recommended.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

References