

**PP1229B1****Polyclonal Antibody to Defensin beta 3 - Biotin**

<b>Alternate names:</b>	BD3, Beta-defensin 103, DEFB103, DEFB103A, DEFB103B, DEFB3, Defensin beta 103, Defensin-like protein, HBD3, HBP3
<b>Quantity:</b>	25 µg
<b>Background:</b>	Beta Defensin 3 exhibits antimicrobial activity against Gram-positive bacteria <i>S.aureus</i> and <i>S.pyogenes</i> , Gram-negative bacteria <i>P.aeruginosa</i> and <i>E.coli</i> and the yeast <i>C.albicans</i> . It kills multiresistant <i>S.aureus</i> and vancomycin-resistant <i>E.faecium</i> , but it appears to have no significant hemolytic activity. Beta Defensin 3 is highly expressed in skin and tonsils, and to a lesser extent in trachea, uterus, kidney, thymus, adenoid, pharynx and tongue. Low expression is observed in salivary gland, bone marrow, colon, stomach, polyp and larynx, with no expression in small intestine. Expression is induced by infection of bacteria and by interferon gamma. Beta Defensin 3 belongs to the beta-defensin family.
<b>Uniprot ID:</b>	<a href="#">P81534</a>
<b>NCBI:</b>	<a href="#">NP_001075020.1</a>
<b>GeneID:</b>	<a href="#">414325</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	<i>E.coli</i> derived recombinant Human Beta Defensin-3 (Cat.-No PA184).
<b>Format:</b>	<b>State:</b> Lyophilized (sterile filtered) purified Ig fraction <b>Purification:</b> Affinity Chromatography <b>Buffer System:</b> BPS, pH 7.2 without preservatives <b>Label:</b> Biotin <b>Reconstitution:</b> Centrifuge vial prior to opening. Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml
<b>Applications:</b>	<b>Direct ELISA:</b> To detect Human BD-3 by Direct ELISA (using 100µl/well) a concentration of ~1.0 µg/ml of this antibody is required. This Biotinylated antibody allows the detection of at least 0.2-0.4 mg/well of recombinant Human BD-3. <b>Sandwich ELISA:</b> To detect Human BD-3 by Sandwich ELISA (using 100µl/well antibody solution) a concentration of 0.25-1.0 µg/ml of this antibody is required. This Biotinylated antibody, in conjugation with Purified Anti-Human BD-3 antibody (Cat.-No PP1229P) as a Capture antibody, allows the detection of at least 0.2-0.4 mg/well of recombinant Human BD-3. <b>Western blot:</b> To detect Human BD-3 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human BD-3 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts with Human BD3 (Defensin beta 3). Other species not tested.
<b>Add. Information:</b>	<b>Molecular weight:</b> ~150 kDa

**Storage:**

Prior to reconstitution store at 2-8°C.

Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.