

Polyclonal Antibody to Defensin beta 3 - Aff - Purified

Alternate names:	BD3, Beta-defensin 103, DEFB103, DEFB103A, DEFB103B, DEFB3, Defensin beta 103, Defensin-like protein, HBD3, HBP3
Catalog No.:	PP1229P1
Quantity:	50 µg
Background:	<p>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.</p> <p>Beta Defensin 3 belongs to the beta-defensin family.</p>
Uniprot ID:	P81534
NCBI:	NP_001075020.1
GeneID:	414325
Host:	Rabbit
Immunogen:	<i>E.coli</i> derived Recombinant Human Beta Defensin-3.
Format:	<p>State: Lyophilized (sterile filtered) purified Ig fraction Purification: Affinity Chromatography employing immobilized Human BD-3 matrix Buffer System: PBS, pH 7.2 without preservatives. Reconstitution: Centrifuge vial prior to opening. Restore with sterile water to a concentration of 0.1-1.0 mg/ml.</p>
Applications:	<p>Sandwich ELISA: To detect Human BD-3 by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml of this antibody is required. Antibody PP1229P, in conjunction with biotinylated anti-Human BD-3 (Cat.-No PP1229B), allows the detection of at least 0.2-0.4 ng/well of recombinant Human BD-3.</p> <p>Western Blot: To detect Human BD-3 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. When 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.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	This antibody reacts with Human BD3 (Defensin beta 3). Other species not tested.
Add. Information:	Molecular weight: ~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.

Product Citations:

Purchased from Acris:

1. Gläser R, Becker K, von Eiff C, Meyer-Hoffert U, Harder J. Decreased susceptibility of Staphylococcus aureus small-colony variants toward human antimicrobial peptides. J Invest Dermatol. 2014 Sep;134(9):2347-50. doi: 10.1038/jid.2014.176. Epub 2014 Apr 9. PubMed PMID: 24717245.

General Readings:

1. Ghosh SK, Gerken TA, Schneider KM, Feng Z, McCormick TS, Weinberg A. Quantification of human beta-defensin-2 and -3 in body fluids: application for studies of innate immunity. Clin Chem. 2007 Apr;53(4):757-65. Epub 2007 Feb 22. PubMed PMID: 17317882.

Pictures:

Sandwich ELISA using anti-Human BD3
Antibody Cat.-No PP1229P

