



Anti-Human BD-5

20171219BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P99
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human BD-5. Anti-human BD-5-specific antibody was purified by affinity chromatography employing an immobilized BD-5 matrix.

Target Background

Synonyms (Target):	BD5, DEFB5, DEFB105a, Beta-Defensin 5
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Defensins (alpha and beta) are cationic peptides with a broad spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The alpha-defensins are distinguished from the beta-defensins by the pairing of their three disulfide bonds. To date, six human beta-defensins have been identified; BD-1, BD-2, BD-3, BD-4, BD-5 and BD-6. beta-defensins are expressed on some leukocytes and at epithelial surfaces. In addition to their direct antimicrobial activities, they can act as chemoattractants towards immature dendritic cells and memory T cells. The beta-defensin proteins are expressed as the C-terminal portion of precursors, and are released by proteolytic cleavage of a signal sequence and, in some cases, a propeptide sequence. beta-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds.

Database References Target

Protein RefSeq:	NP_689463.1
Uniprot ID:	Q8NG35
mRNA RefSeq:	NM_152250.2

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	highly pure recombinant BD-5
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Western Blot: To detect human BD-5 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 hBD-5 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

ELISA: To detect human BD-5 by Sandwich ELISA (using 100µl/well antibody solution) a concentration of 0.5 – 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 2 - 4 ng/well of recombinant BD-5.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!