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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Beta-Defensin-3 (HBD-3/MBD-3), affinity purified

nordicmubio.com/product/beta-defensin-3-hbd-3-mbd-3-affinity-purified

Catalogue number: **DEF03-A**

Product Type	Primary Antibodies
Units	100 µg
Host	Rabbit
Application	ELISA Radioimmunoassay

Background

The peptide sequences of HBD-3/MBD-3 used for immunisation contain very little consensus aa with any of the other human or mouse defensins. Human defensins are Cys-rich antimicrobial peptides which specifically react against Gram-negative bacteria. Originally defensins were isolated from hemolysates, but they can also be found on the cell surface of epithelia of the urogenital tract, lung, and trachea. In leukocytes defensins are stored in granules being released into phagolysosomes for the destruction of incorporated micro-organisms. Amino acid sequences of alpha-defensins 1-4 (HNP1-4) and beta-Defensins 1-4 (HBD1-4) are known. Mature Human Beta-Defensin-3 (HBD-3) shares app. 22% aa sequence homology with HBD-1. β -defensin-3 of human and mouse origin, N-terminal fragments of HBD-3 and MBD-3, no cross-reactivity with other known β -defensins or alpha-defensins.

Source

Immunogen: Mixture of synthetic peptides 15 aa near C-terminus of the mature HBD-3 (LPKEEQIGKCSTRGR) and 13 aa of N-terminal MBD-3, coupled to KLH for immunisation of rabbits

Product

Peptide Sepharose purified IgG in PBS, BSA, lyophilized without preservative. Reconstitute with 0.1 ml sterile water to get an antibody concentration of 1 mg/ml. Dilution buffers are depending on the type of application.

Purification Method: Peptide Sepharose purified IgG in PBS, BSA, lyophilized without preservative. Reconstitute with 0.1 ml sterile water to get an antibody concentration of 1 mg/ml. Dilution buffers are depending on the type of application.

Specificity

Species Reactivity: Human, mouse

Applications

ELISA, RIA, IHC not established

Working Concentration: (lyophilisate) 1-10 µg/ml Western Blot, 0.5-1 µg/ml ELISA, IHC 2-10 µg/ml (not tested)

Positive Control: Skin and airway epithelia

Storage

-20°C

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.

References

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3. Jia H.P., Schutte B.C., Schudy A., Linzmeier R., et al. (2001) Discovery of new human beta-defensins using a genomics-based approach. *Gene* 263(1-2);211-218.
4. Garcia J.R., Jaumann F., Schulz S., Krause A., et al. (2001) Identification of a novel multifunctional beta-defensin (human beta-defensin 3) with specific antimicrobial activity. Its interaction with plasma membranes of *Xenopus* oocytes and the induction of macrophage chemoattraction. *Cell Tissue Res.* 306(2); 257-264.
5. Harder J., Bartels J., Christophers E., and J.-M. Schröder (2001) Isolation and characterization of human beta-defensin-3, a novel human inducible peptide antibiotic. *J. Biol. Chem.* 276(8); 5707-5713.