



Defensins

Best in Class in Antibody, Peptide & ELISA



HNP1-3, Human, ELISA

- Robust, Reliable & Reproducible
- Inter & Intra variation < 10%
- All components tested separately for variability and stability
- Cross reactive with monkey
- No cross reactivity with bovine, sheep, mouse, rat, rabbit, goat, pig and horse
- > 100 Publications
- Coagulation factors: no influence for sample handling
- Suitable for tissue, BAL and plasma samples

Antibody & Peptide Specifications

- In house production & QC testing of each batch
- Human HNP1-3 protein and human alpha-defensin 5 peptide
- Human defensin 5 antibody
- HNP1-3 antibody
- Rabbit neutrophil defensin 5
- Also available in bulk formats (>1mg) or with specific label

Product	Quantity	Cat.#
Human HNP1-3 ELISA	1 x 96 det.	HK317-01
Human HNP1-3 ELISA	2 x 96 det.	HK317-02
Human HNP1-3 protein	100 µg	HC4014
Human α-defensin 5 peptide	50 µg	HC2121
Human defensin 5 antibody	100 µg	HM2228
Human defensin 5 antibody	0.5 mg	HM2228-IA
Human HNP1-3 antibody	100 µg	HM2058
Human HNP1-3 antibody, biotinylated	50 µg	HM2059
Rabbit neutrophil defensin 5 antibody	100 µg	HM4008

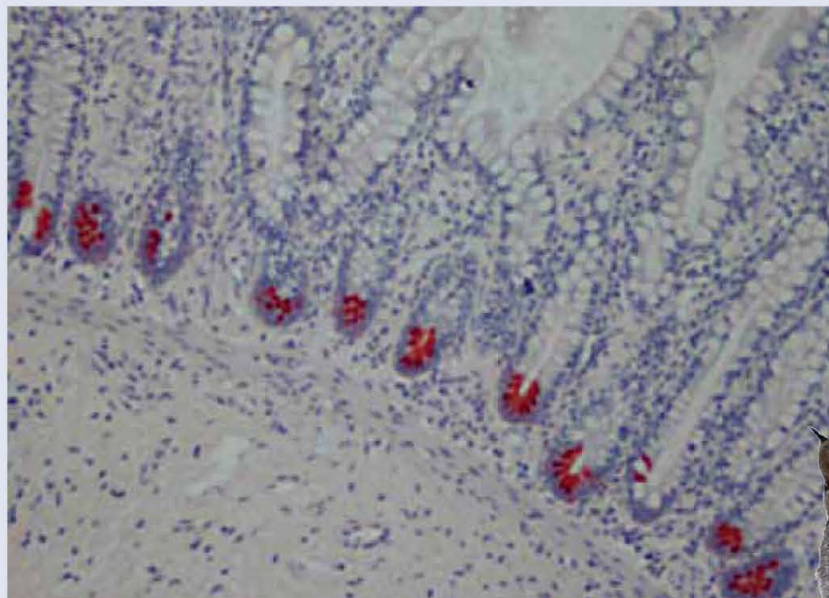


Figure: Staining of Defensin-5 on healthy human Ileum. Paraffin embedded sections with antibody Cat.# HM2228 in a concentration of 1 µg/ml.

Available in Canada from...



1-888-593-5969 • www.biolyx.ca • tech@biolyx.ca





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HNP1-3

- Three defensin peptide families are identified, the α -, β -, and θ -defensins.
- α - and β -defensins modify cell migration and maturation, induce cytokines and trigger histamin and prostaglandin D2 release from mast cells. There are six α -defensins: HNP (human neutrophil peptide)-1 to -4, HD5 & 6.
- Human neutrophil defensins (alpha-defensins, HNP1-3) are microbicidal, the peptides exert chemotactic, immunomodulating and cytotoxic activity and participate in host defense and inflammation.
- Activation of neutrophils leads to rapid release of defensins.



Diseases

- In normal plasma, low levels of HNP1-3 are present ranging from undetectable level to 50-100 ng/ml.
- In septic conditions, the levels of HNP1-3 might be elevated to 10 mg/ml or even more.
- Immune complexes isolated from patients with pulmonary tuberculosis modulate the activation and function of normal granulocytes. (Sembagavalli et.al., Clin Vaccine Immunol 2012).
- Intestinal defensin secretion in infancy is associated with the emergence of sensitization and atopic dermatitis (Savilathi et.al., Clinical & Experimental Allergy 2012).



Why scientists buy our products:

- Unique products · Sensitivity · Specificity · Easy to use · Value for money · 1- & 2-plate kits · Functional studies · Technical support ·
- Standardized assays · Quality control · Inter/intra variation <10% · Well documented products · Broad in applications ·



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