

AM02223PU-N**Monoclonal Antibody to Defensin beta 4 (3-39) - Purified**

Alternate names:	BD-4, Beta-defensin 4, DEFB-4, DEFB104, DEFB104A, DEFB104B, DEFB4, hBD-4
Quantity:	0.1 mg
Background:	Beta 4 Defensin has antimicrobial activity and synergistic effects with lysozyme and DEFB103. High expression levels are seen in the testis. Gastric antrum also exhibits relatively high levels. A lower expression is observed in uterus and neutrophils thyroid gland, lung, and kidney. No detectable expression was observed in other tissues tested. Antimicrobial activity is decreased when the sodium chloride concentration is increased. Beta 4 Defensin belongs to the beta-defensin family.
Uniprot ID:	Q8WTQ1
NCBI:	NP_001035792.1
GenElD:	140596
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	L13-10-D1
Immunogen:	Synthetic Human beta-Defensin 4 (aa 3-39) AA Sequence: ELDRICGYGTARCRKKCRSQEYRIGRCPNTYACCLRK
Format:	State: Lyophilized purified Cell Culture Supernatant Purification: Protein G Chromatography Buffer System: 50mM TRIS pH 7,4 Reconstitution: Restore in aqua bidest to 1 mg/ml.
Applications:	RIA. ELISA. Western blot. Immunohistochemistry on Paraffin Sections: 1 µg/ml (Ref.1). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects Human beta-Defensin 4 (aa 3-39). There was cross reactivity obtained with Human beta-Defensin 1, beta-Defensin 2 and beta-Defensin 3. Species: Human. Other species not tested.
Add. Information:	LocusID 140596
Storage:	Store lyophilized at 2-8°C and reconstituted at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.

General Readings:

1. Schwaab M, Hansen S, Pearson MD, Shagdarsuren S, Dazert S. Human beta-defensins--at the front line of the peritonsillar abscess. *Eur J Clin Microbiol Infect Dis*. 2009 Jul;28(7):745-55. doi: 10.1007/s10096-008-0695-z. Epub 2009 Jan 24. PubMed PMID: 19169721.

Pictures:

Immunohistochemistry of beta-Defensin-4 staining in Paraffin section of peritonsillar abscess. Antigen retrieval was performed with Trypsin. The sections were incubated with AM02223PU (1/75) and detected using Histostain Plus Broad Kit. AM02223PU stains abscess formatin (AF), surface epithelium (SE), crypt epithelium (CE) and lymphatic follicules (LF). Original magnification: x2. *Schwaab M et al. (2009) Eur J Clin Microbiol Infect Dis 28(7): 745-755.*

