# Data Sheet

# HUMAN β-DEFENSIN 4 (aa 3-39)

## ANTIBODY, MONOCLONAL

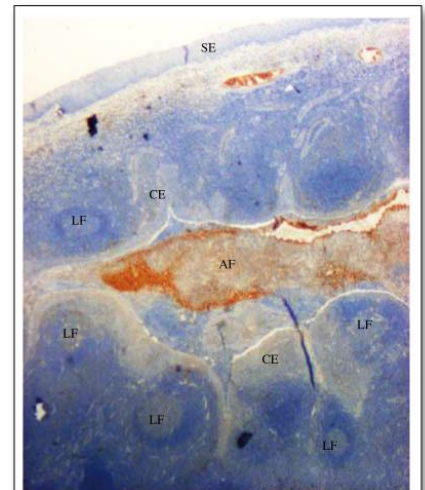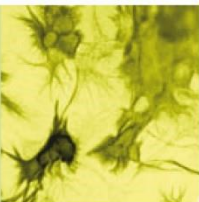| | |
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| **Catalog no.:** | AE1046.1 / AE1046.2 |
| **Immunogen:** | Synthetic human β-Defensin 4 (aa 3-39) (ELDRICGYGTARCRKKCRSQEYRIGRCPNTYACCLRK) |
| **Synonyms:** | hBD-4, β-defensin 104, DEFB-4 |
| **Swiss-Prot No:** | Q8WTQ1 |
| **Gene Information:** | Gene Name: DEFB104A, DEFB104, DEFB4 and DEFB104B |
| | GeneID: 140596 and 503618 |
| **Host:** | Mouse Balb/c |
| **Clone no.:** | L13-10-D1 |
| **Isotype:** | $IgG_1$ |
| **Matrix:** | Cell culture supernatant, Protein G purified, 50 mM TRIS pH 7.4 |
| **Specificity:** | Human β-Defensin 4 |
| | There was cross reactivity obtained with human β-Defensin 1, β-Defensin 2, and β-Defensin 3. |
| **Contents:** | 10 µg / 100 µg (lyophilized) |
| | Resuspend in 10 µl / 100 µl aqua bidest. |
| **Known applications:** | ELISA, RIA, Western Blot, immunohistochemistry (paraffin sections, 1 µg/ml)[1] |



**Figure 1:** Immunohistochemistry image of β-Defensin 4 staining in paraffin section of peritonsillar abscess. Antigen retrieval was performed with trypsin. The section was incubated with AE1046 (1:75) and detected using Histostain Plus Broad Kit (Zymed Laboratories). AE1046 stains abscess formation (AF), surface epithelium (SE), crypt epithelium (CE), and lymphatic follicles (LF). Original magnification: x2.
*Schwaab M et al. (2009) Eur J Clin Microbiol Infect Dis 28(7):745-55*

This antibody has not been tested for use in all applications. This does not necessarily exclude its use in non-tested procedures. The stated dilutions are recommendations only. End users should determine optimal dilutions in their system using appropriate negative/positive controls.

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| **Store at:** | 2-8 °C (lyophilized); - 20 °C (dissolved) |
| | Repeated thawing and freezing must be avoided |
| **References:** | 1. Schwaab M, Hansen S, Pearson MD, Shagdarsuren S, Dazert S (2009). Human beta-defensins--at the front line of the peritonsillar abscess. *Eur J Clin Microbiol Infect Dis* **28**(7)**:** 745-755. |
| **Last updated on:** | 20 April 2022 |

**For research use only**

**Publishing research using AE1046? Please let us know so that we can cite your publication as a reference.**