

## Data Sheet

# HUMAN B-DEFENSIN 2 (aa 4-41)

## ANTIBODY, MONOCLONAL

<b>Catalog no.:</b>	AE1110.1 / AE1110.2
<b>Immunogen:</b>	Synthetic human $\beta$ -Defensin 2 (aa 4-41) (DPVTCLKSGAICHVPFCPRRYKQIGTCGLPGTKCKKCP)
<b>Synonyms:</b>	Defensin beta 2, hBD-2, Skin-antimicrobial peptide 1 (SAP1)
<b>Swiss-Prot No:</b>	O15263
<b>Gene Information:</b>	Gene Name: DEFB4A, DEFB102, DEFB2, DEFB4, DEFB4B GenelD: 1673, 100289462
<b>Host:</b>	Mouse Balb/c
<b>Clone no.:</b>	L12-4C-C2
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Matrix:</b>	Cell culture supernatant, Protein G purified, PBS, pH 7.4
<b>Specificity:</b>	Human $\beta$ -Defensin 2
<b>Contents:</b>	10 $\mu$ g / 100 $\mu$ g (lyophilized) Resuspend in 10 $\mu$ l / 100 $\mu$ l aqua bidest.
<b>Known applications:</b>	ELISA, Western Blot (5 $\mu$ g/ml) <sup>1</sup> , immunohistochemistry (paraffin sections, 1:2000) <sup>1</sup>

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.

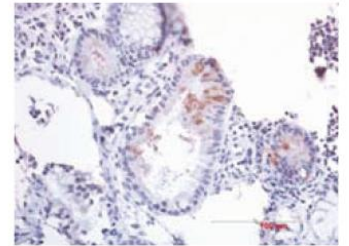
<b>Store at:</b>	2-8 °C (lyophilized); - 20 °C (dissolved) Repeated thawing and freezing must be avoided
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<b>References:</b>	1. Langhorst J, Junge A, Rueffer A, Wehkamp J, Foell D, Michalsen A, Musial F, Dobos GJ (2009). Elevated Human [beta]-Defensin-2 Levels Indicate an Activation of the Innate Immune System in Patients With Irritable Bowel Syndrome. <i>Am J Gastroenterol</i> <b>104</b> (2): 404-410.
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**Last updated on:** 22 April 2022

**For research use only**

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**Figure 1:** Immunohistochemistry image of  $\beta$ -Defensin 2 staining in paraffin section of human colon resection tissue. Antigen retrieval was performed in citric acid (0.01 M, pH 6) twice for 7 min and in 0.1 % trypsin for 5 min. The section was incubated with AE1110 (1:2000) for 1 h and detected using alkaline phosphatase anti-alkaline phosphatase method. New fuchsin was used as the chromogen. The section was counterstained with hematoxylin. AE1110 stains colonic epithelial enterocytes in ulcerative colitis patients. Langhorst J et al. (2009) *Am J Gastroenterol* 104(2):404-10

