

## Datasheet for ABIN7319217 **DEFB4A Protein**

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### Overview

|               |                            |
|---------------|----------------------------|
| Quantity:     | 50 µg                      |
| Target:       | DEFB4A (DEFB4)             |
| Origin:       | Human                      |
| Source:       | Escherichia coli (E. coli) |
| Protein Type: | Recombinant                |

### Product Details

|                  |   |
|------------------|---|
| Purpose:         | Recombinant Human $\beta$ -Defensin 4A/DEFB4A Protein   |
| Sequence:        | Gly24-Pro64   |
| Characteristics: | Recombinant Human beta-Defensin 4A is produced by our E.coli expression system and the target gene encoding Gly24-Pro64 is expressed. |
| Purity:          | > 95 % as determined by reducing SDS-PAGE.  |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method.  |

### Target Details

|                   |  |
|-------------------|--|
| Target:           | DEFB4A (DEFB4)   |
| Alternative Name: | beta-Defensin 4A/DEFB4A ( <a href="#">DEFB4 Products</a> )   |
| Background:       | Background: $\beta$ -Defensin 4A is a membrane-active cationic peptide that functions in inflammation and innate immune responses. There are at least 30 $\beta$ -Defensins, which are distinguished from $\alpha$ -Defensins by the connectivity pattern of their three intermolecular disulfide bonds. Members of the Defensin family are highly similar in protein sequence. This |

## Target Details

gene encodes Defensin, DEFB4, which has broad-spectrum antimicrobial activity and may play an important role in innate epithelial defense. They are highly expressed in skin and tonsils, and to a lesser extent in trachea, uterus, kidney, thymus, adenoid, pharynx and tongue.  $\beta$ -Defensin 4A has low expression in salivary gland, bone marrow, colon, stomach, polyp and larynx. No expression in small intestine. The 45 amino acid mature human BD3 shares 38 % and 33 % amino acid sequence identity with mouse and rat BD3, respectively.

Synonym: Beta-Defensin 4A, Beta-Defensin 2, BD-2, hBD-2, Defensin, Beta 2, Skin-Antimicrobial Peptide 1, SAP1, DEFB4A, DEFB102, DEFB2, DEFB4, DEFB4B

Molecular Weight: 4.3 kDa

UniProt: [O15263](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2  $\mu$ m filtered solution of 20 mM PB, 130 mM NaCl, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.