

## DESCRIPTION

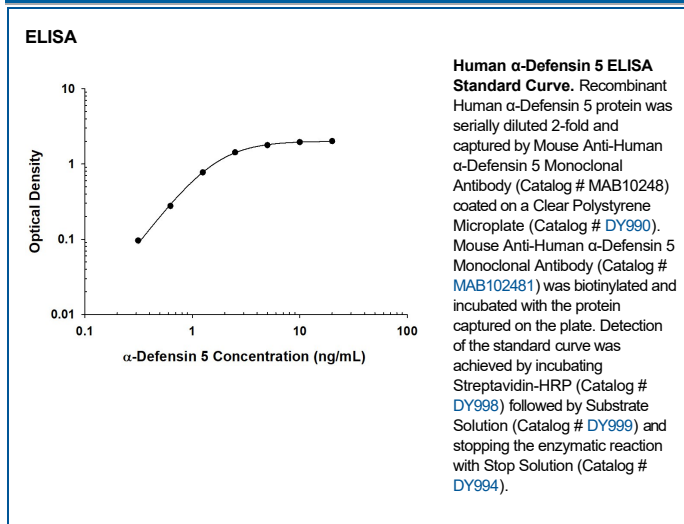
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human $\alpha$ -Defensin 5 in direct ELISAs.
<b>Source</b>	Recombinant Monoclonal Mouse IgG <sub>1</sub> Clone # 972207
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human $\alpha$ -Defensin 5 Thr64-Arg94 Accession # Q01523
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 $\mu$ m filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

<b>ELISA</b>	This antibody functions as an ELISA capture antibody when paired with Mouse Anti-Human $\alpha$ -Defensin 5 Monoclonal Antibody (Catalog # MAB102481).  <i>This product is intended for assay development on various assay platforms requiring antibody pairs.</i>
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## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Defensin alpha 5 (DEFA5), also known as human alpha defensin 5 (HD5), is a secreted antimicrobial protein encoded by the DEFA5 gene and a member of the Defensins family. Defensins are thought to kill microbes by permeabilizing their plasma membrane. DEFA5 is expressed in Paneth cells, which are secretory epithelial cells in the small intestine. Unlike other defensins, DEFA5 is stored in secretory vesicles as a propeptide, and is processed into different peptides with different potency and localization.