

Human α-Defensin 1 Antibody

Recombinant Monoclonal Mouse IgG₁ Clone # 867919R Catalog Number: MAB8198

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human α-Defensin 1 in direct ELISAs.
Source	Recombinant Monoclonal Mouse IgG ₁ Clone # 867919R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	E. coli-derived recombinant human α-Defensin 1 Ala65-Cys94 Accession # P59665
Formulation	Lyophilized from a 0.2 µm 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 µm filtered solution in PBS.

APPLICATIONS

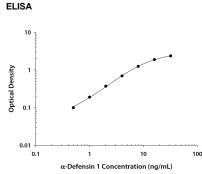
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

ELISA

This antibody functions as an ELISA capture antibody when paired with Sheep Anti-Human α-Defensin 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8198).

This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human alpha-Defensin 1 DuoSet ELISA Kit (Catalog # DY8198-05) for convenient development of a sandwich ELISA.





Human α-Defensin 1 ELISA Standard Curve. Recombinant Human α-Defensin 1 protein was serially diluted 2-fold and captured by Mouse Anti-Human α-Defensin 1 Monoclonal Antibody (Catalog # MAB8198) coated on a Clear Polystyrene Microplate (Catalog # DY990). Sheep Anti-Human α-Defensin 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8198) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping 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

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
 - 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

Human Defensin alpha 1 (DEFA1) is 94 amino acids (aa) in length and is cleaved into the following chains: HP 1-56 (aa 39-94), Neutrophil defensin 1 (aa 65-94) and Neutrophil defensin 2 (aa 66-94). Defensins are secreted peptides that kill microbes by permeabilizing their plasma membrane. DEFA1 has antimicrobial activity against Gram-negative and Gram-positive bacteria. ADP-ribosylation reduces cytotoxic and antibacterial activities, it is also known to enhance IL8 production. Phosphorylation at Tyr-85 is reported in several cancer cell lines and interferes with ADP-ribosylation of DEFA1.

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