

# Mouse Defensin, alpha 1 (DEFA1) ELISA Kit

Catalog No: #EK11275



Package Size: #EK11275-1 48T #EK11275-2 96T

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## Description

Product Name	Mouse Defensin, alpha 1 (DEFA1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DEF1; DEFA2; HNP-1; HP-1; MGC138393; MRS; OTTHUMP00000196017 defensin; alpha 1; myeloid-related sequence defensin; alpha 2 myeloid-related sequence
Accession No.	P11477
Uniprot	P11477
GenID	13216;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range: 31.25-2000 pg/mL

Sensitivity: 12.7 pg/mL

Sample Type: Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time: 1-4.5h

Detection wavelength: 450 nm

## Product Description

**Detection Method:** Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate DEFA1 in samples. An antibody specific for DEFA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any DEFA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DEFA1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of DEFA1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:** Defensins are cytotoxic peptides and have a well-defined role in host defense. Defensins are a family of microbicidal and cytotoxic peptides thought to be involved in host defense. They are abundant in the granules of neutrophils and also found in the epithelia of mucosal surfaces such as those of the intestine, respiratory tract, urinary tract, and vagina. Members of the defensin family are highly similar in protein sequence and distinguished by a conserved cysteine motif. Several alpha defensin genes appear to be clustered on chromosome 8. The defensin, alpha 1 protein, is found in the microbicidal granules of neutrophils and likely plays a role in phagocyte-mediated host defense. It differs from defensin, alpha 3 by only one amino acid.

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Note: This product is for in vitro research use only