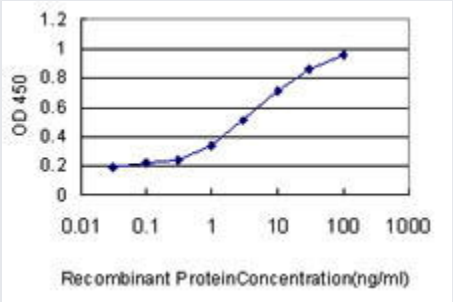
DEFA1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	DEFA1, Monoclonal Antibody
Full Product Name	DEFA1 (Neutrophil Defensin 1, Defensin, alpha 1, HNP-1, HP-1, HP1, DEF1, DEFA2, MRS, DEFA1B) (FITC)
Product Gene Name	anti-DEFA1 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3G9
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human DEFA1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	10,245 Da
Immunogen	Full length recombinant corresponding to aa1-94 from human DEFA1 (AAH27917) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHPGSRKNMDCYCRIPACIAGERRYGTCIYQGRLWAFCC
Conjugate	FITC
Product Categories/Family for anti-DEFA1 antibody	Antibodies; Defensin
Applications Tested/Suitable for anti-DEFA1 antibody	ELISA (EIA)
Application Notes for anti-DEFA1 antibody	Sandwich ELISA: The detection limit is ~0.1ng/ml as a capture antibody. Applications are based on unconjugated antibody.
Related Product Information for anti-DEFA1 antibody	MBS6146816 is an antibody targeting DEFA1. Also known as DEFA1 (Neutrophil Defensin 1, Defensin, alpha 1, HNP-1, HP-1, HP1, DEF1, DEFA2, MRS, DEFA1B) (FITC). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-DEFA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-DEFA1 antibody
Detection limit for recombinant GST tagged DEFA1 is ~0.1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DEFA1. It may not necessarily be applicable to this product.

NCBI GI #	20379719
NCBI GeneID	1668
NCBI Accession #	BC027917
NCBI Related Accession #	AAH27917
UniProt Secondary Accession #	P11479; Q14125
UniProt Related Accession #	P59666
NCBI Official Full Name	Homo sapiens defensin, alpha 3, neutrophil-specific, mRNA
NCBI Official Synonym Full Names	defensin alpha 3
NCBI Official Symbol	DEFA3
NCBI Official Synonym Symbols	HP3; DEF3; HNP3; HP-3; HNP-3
Protein Family	Alpha-defensin
NCBI Protein Information	neutrophil defensin 3
NCBI Summary for DEFA1	Defensins are a family of antimicrobial 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. The protein encoded by this gene, defensin, alpha 3, is found in the microbicidal granules of neutrophils and likely plays a role in phagocyte-mediated host defense. Several alpha defensin genes are clustered on chromosome 8. This gene differs from defensin, alpha 1 by only one amino acid. This gene and the gene encoding defensin, alpha 1 are both subject to copy number variation. [provided by RefSeq, Oct 2014]
Research Articles on DEFA1	**1.** The expression of alpha-defensins 1, 2 and 3 is up-regulated in hypercholesteremia.
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