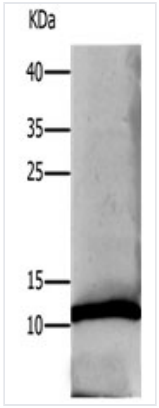
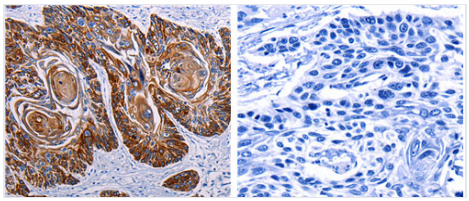
DEFA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DEFA1, Polyclonal Antibody
Full Product Name	DEFA1 Antibody
Product Gene Name	anti-DEFA1 antibody
Product Synonym Names	Defensin, alpha 1, HP1, MRS, DEF1, HP-1, DEFA2, HNP-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied at 1.1mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.3, 0.05% sodium azide and 50% glycerol.
Specificity	The antibody detects endogenous level of total DEFA1 protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	10,201 Da
OMIM	125220
Immunogen Type	Peptide-KLH
Immunogen Description	Synthetic peptide corresponding to a region derived from 49-63 amino acids of Human Defensin, alpha 1
Target Name	DEFA1
Product Categories/Family for anti-DEFA1 antibody	Total protein Ab
Applications Tested/Suitable for anti-DEFA1 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-DEFA1 antibody	ELISA: 1:500-1:5000 Western blotting: 1:500-1:1000 Immunohistochemistry: 1:25-1:50
Related Product Information for anti-DEFA1 antibody	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. The protein encoded by this gene, defensin, alpha 1, 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 3 by only one amino acid. This gene and the gene encoding defensin, alpha 3 are both subject to copy number variation.
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.
Searchable Terms for DEFA1 purchase	MBS9410877 is an antibody targeting DEFA1. Also known as DEFA1 Antibody. Reactive in Human. Host: Rabbit.



Testing Data of anti-DEFA1 antibody
Gel: 12%SDS-PAGE Lysate: 30 ug Human lung tissue lysate Primary antibody: 1/550 dilution Secondary antibody: Donkey anti Rabbit IgG - H&L (HRP) at 1/5000 dilution Exposure time: 1 minute



Immunohistochemistry (IHC) of anti-DEFA1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using 31183(DEFA1 Antibody) at dilution 1/15, on the right is treated with the synthetic peptide.

ADDITIONAL DETAILS

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

NCBI GI #	4758146
NCBI GeneID	1667
NCBI Accession #	NP_004075
UniProt Secondary Accession #	P11479; Q14125; Q6EZF6
UniProt Related Accession #	P59665
GenBank Nucleotide #	NM_004084.3
NCBI Official Full Name	neutrophil defensin 1 preproprotein
NCBI Official Synonym Full Names	defensin, alpha 1
NCBI Official Symbol	DEFA1
NCBI Official Synonym Symbols	HP1; MRS; DEF1; HP-1; DEFA2; HNP-1
UniProt Protein Name	Neutrophil defensin 1
UniProt Synonym Protein Names	Defensin, alpha 1; HNP-1; HP-1; HP1
Protein Family	Alpha-defensin
UniProt Gene Name	DEFA1
UniProt Synonym Gene Names	DEF1; DEFA2; MRS; HP-1; HP1; HP-2; HP2
UniProt Entry Name	DEF1_HUMAN
NCBI Protein Information	neutrophil defensin 1
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 1, 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 3 by only one amino acid. This gene and the gene encoding defensin, alpha 3 are both subject to copy number variation. [provided by RefSeq, Oct 2014]

UniProt Comments for DEFA1	defensin, alpha 1: Defensin 1 and defensin 2 have antibacterial, fungicide and antiviral activities. Has antimicrobial activity against Gram- negative and Gram-positive bacteria. Defensins are thought to kill microbes by permeabilizing their plasma membrane. Belongs to the alpha-defensin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 8p23.1 Cellular Component: extracellular matrix; extracellular space; Golgi lumen; extracellular region Biological Process: defense response to Gram-positive bacterium; estrogen receptor signaling pathway; innate immune response in mucosa; killing of cells of another organism; antibacterial humoral response; innate immune response; immune response; chemotaxis; defense response to virus; defense response to fungus
Research Articles on DEFA1	**1.** The expression of alpha-defensins 1, 2 and 3 is up-regulated in hypercholesteremia.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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