

ARG66046 anti-alpha Defensin 1 antibody (Biotin)

Package: 50 µg
Store at: 4°C

Summary

Product Description	Biotin-conjugated Goat Polyclonal antibody recognizes alpha Defensin 1
Tested Reactivity	Hu
Tested Application	ELISA
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	alpha Defensin 1
Species	Human
Immunogen	E. coli derived recombinant Human alpha Defensin 1. (ACYCRIPACI AGERRYGTCTI YQGRLWAFCC)
Conjugation	Biotin
Alternate Names	DEF1; Neutrophil defensin 1; HNP-1; HNP-2; HP-2; HP1; Defensin, alpha 1; MRS; DEFA2; HP2; HP-1

Application Instructions

Application table	Application	Dilution
	ELISA	Direct: 0.25 - 1.0 µg/ml Sandwich: 0.25 - 1.0 µg/ml with ARG66045 as a capture antibody
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

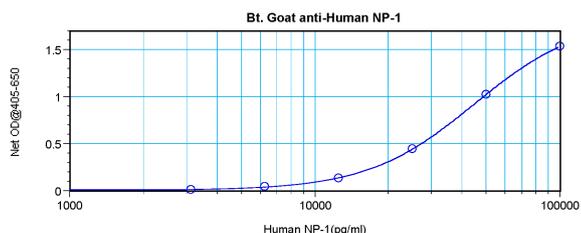
Form	Liquid
Purification	Purified by affinity chromatography.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 1667 Human
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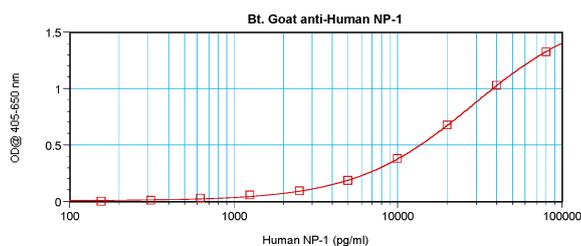
Gene Symbol	DEFA1
Gene Full Name	defensin, alpha 1
Background	Defensins are a family of antimicrobial and cytotoxic peptides thought to be involved in host defense. They are abundant in the granules of neutrophils and also found in the epithelia of mucosal surfaces such as those of the intestine, respiratory 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]
Function	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. [UniProt]
Calculated Mw	10 kDa
PTM	ADP-ribosylation drastically reduces cytotoxic and antibacterial activities, and enhances IL8 production. Phosphorylation at Tyr-85 has been found in some cancer cell lines, and interferes with ADP-ribosylation.

Images



ARG66046 anti-alpha Defensin 1 antibody (Biotin) standard curve image

Direct ELISA: ARG66046 anti-alpha Defensin 1 antibody (Biotin) at 0.25 - 1.0 $\mu\text{g}/\text{ml}$ results of a typical standard run with optical density reading at 405 - 650 nm.



ARG66046 anti-alpha Defensin 1 antibody (Biotin) standard curve image

Sandwich ELISA: ARG66046 anti-alpha Defensin 1 antibody (Biotin) as a detection antibody at 0.25 - 1.0 $\mu\text{g}/\text{ml}$ combined with [ARG66045](#) anti-alpha Defensin 1 + alpha Defensin 2 + alpha Defensin 3 antibody as a capture antibody. Results of a typical standard run with optical density reading at 405 - 650 nm.