

ARG66045 anti-alpha Defensin 1 + alpha Defensin 2 + alpha Defensin 3 antibody

Package: 50 µg

Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes alpha Defensin 1 + alpha Defensin 2 + alpha Defensin 3
Tested Reactivity	Hu
Tested Application	ELISA, Neut
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	alpha Defensin 1 + alpha Defensin 2 + alpha Defensin 3
Species	Human
Immunogen	E. coli derived recombinant Human alpha Defensin 1. (ACYCRIPACI AGERRYGTCTI YQGRLWAFCC)
Conjugation	Un-conjugated
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	Sandwich: 0.5 - 2.0 µg/ml with ARG66046 as a detection antibody
	Neut	0.40 - 0.60 µg/ml (To yield [ND50] of the biological activity of Human NP-1 (100.0 ng/ml))
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

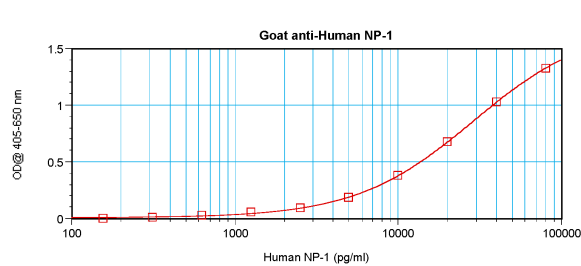
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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 Swiss-port # P59665 Human
Gene Symbol	DEFA1
Gene Full Name	defensin, alpha 1
Background	<p>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]</p>
Function	<p>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]</p>
Calculated Mw	10 kDa
PTM	<p>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.</p>

Images



ARG66045 anti-alpha Defensin 1 + alpha Defensin 2 + alpha Defensin 3 antibody standard curve image

Sandwich ELISA: ARG66045 anti-alpha Defensin 1 + alpha Defensin 2 + alpha Defensin 3 antibody as a capture antibody at 0.5 - 2.0 µg/ml combined with [ARG66046](#) anti-alpha Defensin 1 antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density reading at 405 - 650 nm.