

ARG65200 anti-alpha Defensin 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes alpha Defensin 1
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Specificity	This antibody is expected to equally recognize DEFA1 precursor and DEFA3 precursor.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	alpha Defensin 1
Species	Human
Immunogen	C-DESLAPKHGSRKN
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
	IHC-P	3 - 6 µg/ml
	WB	1 - 3 µg/ml

Application Note
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 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.

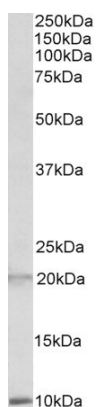
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

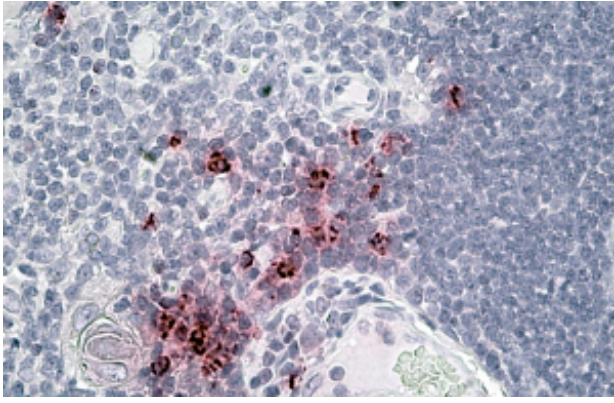
Database links	GeneID: 1667 Human Swiss-port # P59665 Human
Gene Symbol	DEFA1
Gene Full Name	defensin, alpha 1
Background	Defensins are a family of antimicrobial and cytotoxic peptides thought to be involved in host defense. They are abundant in the granules of neutrophils and also found in the epithelia 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]
Research Area	Immune System antibody; Microbiology and Infectious Disease antibody
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



ARG65200 anti-alpha Defensin 1 antibody WB image

Western blot: Human Spleen lysate (35 µg protein in RIPA buffer) stained with ARG65200 anti-alpha Defensin 1 antibody at 2 µg/ml dilution.



ARG65200 anti-alpha Defensin 1 antibody IHC-P image

Immunohistochemistry: Paraffin embedded Human Thymus.
(Steamed antigen retrieval with citrate buffer pH 6) stained with
ARG65200 anti-alpha Defensin 1 antibody at 3.8 $\mu\text{g}/\text{ml}$ dilution
followed by AP-staining.