Datasheet for ABIN5518754

anti-alpha Defensin 1 antibody (C-Term)

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1 Image

Overview

Quantity:	100 µg
Target:	alpha Defensin 1 (DEFA1)
Binding Specificity:	AA 65-94, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Neutrophil defensin 1(DEFA1) detection. Tested with WB in Human,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Alpha Defensin 1 (65-94aa ACYCRIPACIAGERRYGTCIYQGRLWAFCC).
Sequence:	ACYCRIPACI AGERRYGTCI YQGRLWAFCC
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Neutrophil defensin 1(DEFA1) detection. Tested with WB in Human,Rat. Gene Name: defensin alpha 1 Protein Name: Neutrophil defensin 1
Purification:	Immunogen affinity purified.

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Target Details

Target:	alpha Defensin 1 (DEFA1)
Alternative Name:	DEFA1 (DEFA1 Products)
Background:	Defensin, alpha 1, also known as human alpha defensin 1, human neutrophil peptide 1 (HNP-1) or neutrophil defensin 1 is a human protein that is encoded by the DEFA1 gene. 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. Synonyms: DEF1 | DEFA1 | DEFA1B | DEFA2 | Defensin 1 | Defensin | HNP-1 | HNP-2 | HNP1 | HP-1 | HP-2 | HP1 | HP2 | MRS | P59665
Gene ID:	1667
UniProt:	P59665
Pathways:	Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images

Western Blotting

Image 1. Western blot analysis of Alpha Defensin 1 expression in rat testis extract (Lane 1) and HELA whole cell lysates (Lane 2). Alpha Defensin 1 at 19KD was detected using rabbit anti- Alpha Defensin 1 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

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