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DEFA1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22368c

Product Information

Application	WB, E
Primary Accession	P59665
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB57879
Calculated MW	10201

Additional Information

Gene ID	1667;728358
Other Names	Neutrophil defensin 1, Defensin, alpha 1, HNP-1, HP-1, HP1, HP 1-56, Neutrophil defensin 2, HNP-2, HP-2, HP2, DEFA1, DEF1, DEFA2, MRS
Target/Specificity	This DEFA1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 28-62 amino acids from the Central region of human DEFA1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DEFA1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DEFA1
Synonyms	DEF1, DEFA2, MRS
Function	Effector molecule of the innate immune system that acts via antibiotic-like properties against a broad array of infectious agents including bacteria, fungi,

and viruses or by promoting the activation and maturation of some APCs (PubMed:15616305, PubMed:17142766, PubMed:20220136, PubMed:24236072). Interacts with the essential precursor of cell wall synthesis lipid II to inhibit bacterial cell wall synthesis (PubMed:20214904). Inhibits adenovirus infection via inhibition of viral disassembly at the vertex region, thereby restricting the release of internal capsid protein pVI, which is required for endosomal membrane penetration during cell entry (PubMed:18191790). In addition, interaction with adenovirus capsid leads to the redirection of viral particles to TLR4 thereby promoting a NLRP3-mediated inflammasome response and interleukin 1-beta (IL-1beta) release (PubMed:35080426). Induces the production of proinflammatory cytokines including type I interferon (IFN) in plasmacytoid dendritic cells (pDCs) by triggering the degradation of NFKBIA and nuclear translocation of IRF1, both of which are required for activation of pDCs (PubMed:27031443).

Cellular Location Secreted.

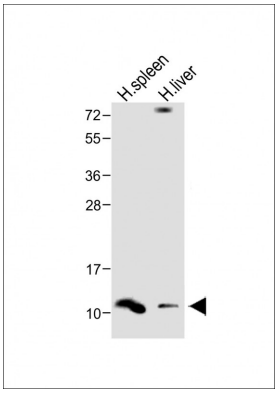
Background

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.

References

Daher K.A.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:7327-7331(1988).
Mars W.M.,et al.Blood 71:1713-1719(1988).
Wiedemann L.M.,et al.Leukemia 3:227-234(1989).
Mars W.M.,et al.J. Biol. Chem. 270:30371-30376(1995).
Linzmeier R.,et al.FEBS Lett. 321:267-273(1993).

Images



All lanes : Anti-DEFA1 Antibody (Center) at 1:1000 dilution Lane 1: Human spleen lysate Lane 2: Human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 10 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.