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Anti-DEFB4A / BD-2 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17439

Product Information

Application	WB, IHC-P
Primary Accession	O15263
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	7038
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	100289462;1673
Alias Symbol	DEFB4A
Other Names	DEFB4A, Beta-defensin 2, Beta-defensin 4A, DEFB-2, DEFB102, Defensin, beta 2, Defensin, beta 4, Defensin, beta 4A, DEFB4, DEFB2, HBD-2, Skin-antimicrobial peptide 1, BD-2, SAP1
Target/Specificity	Recognizes endogenous levels of Defensin beta 2 protein.
Reconstitution & Storage	PBS, pH 7.3, 0.01% sodium azide, 30% glycerol. Store at -20°C. Aliquot to avoid freeze/thaw cycles.
Precautions	Anti-DEFB4A / BD-2 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DEFB4A
Synonyms	DEFB102, DEFB2, DEFB4
Function	Exhibits antimicrobial activity against Gram-negative bacteria and Gram-positive bacteria, with highest activity against Gram-negative bacteria (PubMed:10837369, PubMed:9202117). Antimicrobial activity against P.aruginosa seems to be salt-sensitive and is reduced with high salt concentrations greater than 25 mM (PubMed:10837369). Also exhibits antimicrobial activity against the yeast C.albicans (PubMed:10837369, PubMed:30050988, PubMed:9202117). Permeabilizes C.albicans cell membranes via targeting plasma membrane lipid phosphatidylinositol 4,5-bisphosphate (PIP2), thereby leading to cell fragmentation and cell death (PubMed:30050988). Acts as a ligand for C- C chemokine receptor CCR6

(PubMed:10521347, PubMed:20068036). Binds to CCR6 and induces chemotactic activity of CCR6-expressing cells, such as immature dendritic cells and memory T cells (PubMed:10521347, PubMed:20068036).

Cellular Location Secreted.

Tissue Location Expressed in lung epithelial cells (at protein level) (PubMed:10837369). Expressed in foreskin, lung and trachea (PubMed:9202117). Lower expression in kidney, uterus and salivary gland tissue (PubMed:9202117). Expressed in epithelial cells of the respiratory tract, with higher expression in distal parenchyma of the lung, trachea, and tonsils, and lower expression in pharynx and adenoid, and low expression in tongue and larynx (PubMed:10837369, PubMed:9831658).

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