

ARG56816 anti-BD1 / beta Defensin 1 antibody (Biotin)

Package: 50 µg
Store at: 4°C

Summary

Product Description	Biotin-conjugated Rabbit Polyclonal antibody recognizes BD1 / beta Defensin 1
Tested Reactivity	Hu
Tested Application	ELISA, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BD1 / beta Defensin 1
Species	Human
Immunogen	E.coli derived Recombinant Human BD-1 (47 aa). (GNFLTGLGHR SDHYNCVSSG GQCLYSACPI FTKIQGTCYR GKAKCCK)
Conjugation	Biotin
Alternate Names	DEFB-1; Defensin, beta 1; HBD1; hBD-1; BD1; Beta-defensin 1; DEFB101; BD-1

Application Instructions

Application table	Application	Dilution
	ELISA	Direct: 0.25 - 1.0 µg/ml Sandwich: 0.25 - 1.0 µg/ml with ARG56707 as a capture antibody
	WB	0.1 - 0.2 µg/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	Purified by affinity chromatography.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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: 1672 Human](#)
[Swiss-port # P60022 Human](#)

Gene Symbol DEFB1

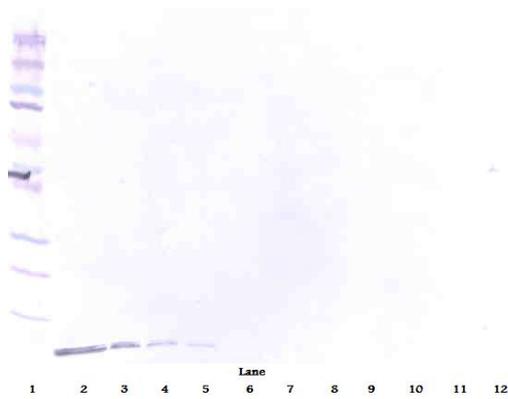
Gene Full Name defensin, beta 1

Background Defensins form a family of microbicidal and cytotoxic peptides made by neutrophils. Members of the defensin family are highly similar in protein sequence. Beta Defensin 1 is an antimicrobial peptide implicated in the resistance of epithelial surfaces to microbial colonization. This gene maps in close proximity to defensin family member, defensin, alpha 1 and has been implicated in the pathogenesis of cystic fibrosis. [provided by RefSeq, Jul 2008]

Function Beta Defensin 1 has bactericidal activity. May act as a ligand for C-C chemokine receptor CCR6. Positively regulates the sperm motility and bactericidal activity in a CCR6-dependent manner. Binds to CCR6 and triggers Ca²⁺ mobilization in the sperm which is important for its motility (PubMed:25122636). [UniProt]

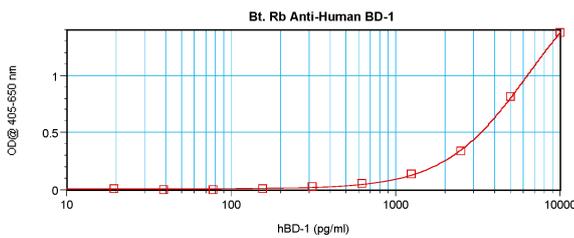
Calculated Mw 7 kDa

Images



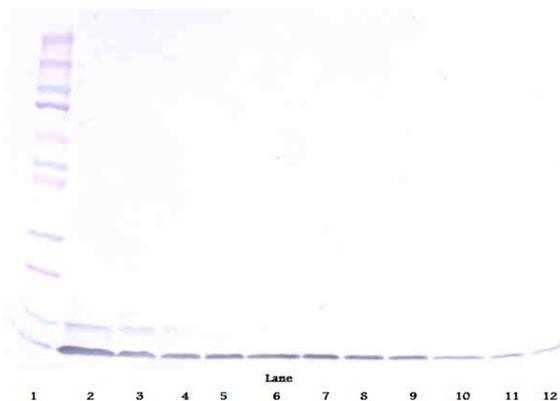
ARG56816 anti-BD1 / beta Defensin 1 antibody (Biotin) WB image

Western blot: 250 - 0.24 ng of Human BD-1 stained with ARG56816 anti-BD1 / beta Defensin 1 antibody (Biotin), under reducing conditions.



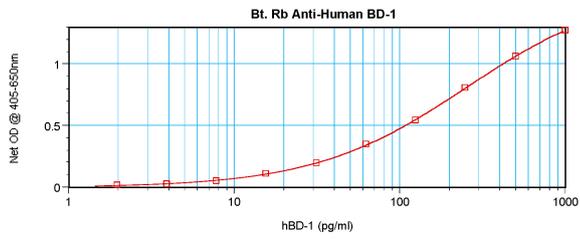
ARG56816 anti-BD1 / beta Defensin 1 antibody (Biotin) standard curve image

Direct ELISA: ARG56816 anti-BD1 / beta Defensin 1 antibody (Biotin) at 0.25 - 1.0 µg/ml results of a typical standard run with optical density.



ARG56816 anti-BD1 / beta Defensin 1 antibody (Biotin) WB image

Western blot: 250 - 0.24 ng of Human BD-1 stained with ARG56816 anti-BD1 / beta Defensin 1 antibody (Biotin), under non-reducing conditions.



ARG56816 anti-BD1 / beta Defensin 1 antibody (Biotin) standard curve image

Sandwich ELISA: ARG56816 anti-BD1 / beta Defensin 1 antibody (Biotin) as a detection antibody at 0.25 - 1.0 $\mu\text{g/ml}$ combined with ARG56707 anti-BD-1 / beta Defensin-1 antibody as a capture antibody. Results of a typical standard run with optical density.