

β -defensin 2 (L12-4C-C2): sc-65631

BACKGROUND

β -defensins (also designated BD, and hBD in human) are small cationic peptides with broad-spectrum antimicrobial activity. Produced in mucosal epithelia and neutrophils of several species, β -defensins are developmentally regulated. Human β -defensin 2 is locally regulated by inflammation and is the first member of the β -defensin family that is locally inducible by inflammation. The murine homolog of human β -defensin 2, which is called β -defensin 3, is present in the respiratory system and in low levels in the epithelial cells of the intestine and lung. The unique murine β -defensin 2 (Def β 2) is not expressed in airways of untreated mice, but is upregulated in the airways by lipopolysaccharide and may contribute to host defense at the mucosal surface of the airways.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DEFB4A (human) mapping to 8p23.1.

SOURCE

β -defensin 2 (L12-4C-C2) is a mouse monoclonal antibody raised against amino acids 4-41 of β -defensin 2 of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

β -defensin 2 (L12-4C-C2) is recommended for detection of synthetic β -defensin 2 of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for β -defensin 2 siRNA (h): sc-43721, β -defensin 2 shRNA Plasmid (h): sc-43721-SH and β -defensin 2 shRNA (h) Lentiviral Particles: sc-43721-V.

Molecular Weight of β -defensin 2: 5 kDa.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.