β-defensin 110 (N-16): sc-137426



The Power to Question

BACKGROUND

 β -defensins (also designated BDs, or hBDs in human) are small cationic peptides with broad-spectrum antimicrobial activity against a variety of enveloped viruses, fungi and bacteria. Produced in mucosal epithelia and neutrophils of several species, β -defensins are developmentally regulated. The family of β -defensin proteins share a common defensin-motif that is characterized by multiple cysteine residues and a highly conserved tertiary structure. Besides playing a significant role in host immune defense, many β -defensins also are involved in sperm maturation and capacitation. β -defensin 110 is a 67 amino acid secreted protein that has antibacterial activity. There are two isoforms of β -defensin 110 that exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DEFB110 (human) mapping to 6p12.3.

SOURCE

 $\beta\text{-defensin}$ 110 (N-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of $\beta\text{-defensin}$ 110 of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 μg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137426 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

 β -defensin 110 (N-16) is recommended for detection of β -defensin 110 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other β -defensin family members.

Suitable for use as control antibody for β -defensin 110 siRNA (h): sc-95324, β -defensin 110 shRNA Plasmid (h): sc-95324-SH and β -defensin 110 shRNA (h) Lentiviral Particles: sc-95324-V.

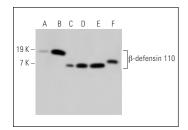
Molecular Weight of β-defensin 110: 8 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HEK293 whole cell lysate: sc-45136 or K-562 whole cell lysate: sc-2203.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



β-defensin 110 (N-16): sc-137426. Western blot analysis of β-defensin 110 expression in HeLa (**A**), Jurkat (**B**), Daoy (**C**), HEK293 (**D**) and K-562 (**E**) whole cell lysates and human tonsil tissue extract (**F**).

RESEARCH USE

For research use only, not for use in diagnostic procedures