



Cylicin-1 (H-181): sc-68403

BACKGROUND

The cytoskeletal calyx structure surrounds part of the nucleus of the mammalian sperm head and contains two main types of basic proteins: calicin and the multiple band proteins (MBPs). Cylicin-1 is member of the MBP family that contains several lysine dipeptides followed by a third variable amino acid, which in most cases is aspartic acid. The central portion of the protein is arranged as a series of repeating units that are predicted to form short individual α helices which are interrupted by short linker segments. The C-terminal tail of Cylicin-1 contains proline-rich segments. Cylicin-1 is expressed only in the calyx of human and bovine spermatozoa, and has a possible architectural role during spermiogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CYLC1 (human) mapping to Xq21.1.

SOURCE

Cylicin-1 (H-181) is a rabbit polyclonal antibody raised against amino acids 470-641 mapping near the C-terminus of Cylicin-1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Cylicin-1 (H-181) is recommended for detection of Cylicin-1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1–2 μ g per 100–500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Cylicin-1 siRNA (h): sc-62177.

Molecular Weight of Cylicin-1: 74 kDa.

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.

PROTOCOLS

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

RESEARCH USE

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