



Cylicin-2 (H-140): sc-68401

BACKGROUND

Cylicin-2 (multiple-band polypeptide II) is a 348 amino acid protein encoded by the human gene CYLC2. Cylicin-1 is a type of a cytoskeletal protein which contains numerous Lys-Lys-Asp tripeptides accumulated in nine central repetitive units predicted to form α -helices. Cylicin-2, present in cow and human sperm heads, has the same prominent molecular characteristics as Cylicin-1, including a high content of charged amino acids, the abundance of Lys-Lys-Asp tripeptides and repetitive units of presumably α -helical configuration. Cylicin-2 is found in the acrosomal region of round spermatids and in the post-acrosomal region of late spermatids and spermatozoa, in agreement with the localization of Cylicin-1. Cylicin-2 is a novel Actin-binding protein, which probably plays a role in the Actin-related events that occur during spermiogenesis and the early events of fertilization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CYLC2 (human) mapping to 9q31.1.

SOURCE

Cylicin-2 (H-140) is a rabbit polyclonal antibody raised against amino acids 53-192 mapping near the N-terminus of Cylicin-2 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.

APPLICATIONS

Cylicin-2 (H-140) is recommended for detection of Cylicin-2 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-2 siRNA (h): sc-62179.

Molecular Weight of Cylicin-2: 39 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.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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