

Morc (I-20): sc-17309

BACKGROUND

Mammalian spermatogenesis is a complex developmental process. Mutations at multiple loci and in structurally and functionally disparate genes in the genome affect gametogenesis. The analysis of mutations has provided insight into biochemical pathways required for completion of this process. The Morc, or microrchidia, is an autosomal recessive mutation which results in the arrest of spermatogenesis early in prophase I of meiosis. The Morc gene acts specifically during male gametogenesis and encodes a 108 kDa protein expressed specifically in male germ cells. Morc maps to mouse chromosome 16 and human chromosome 3q13.13.

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CHROMOSOMAL LOCATION

Genetic locus: MORC1 (human) mapping to 3q13.13; Morc (mouse) mapping to 16 B5.

SOURCE

Morc (I-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Morc 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 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-17309 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Morc (I-20) is recommended for detection of Morc of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Morc (I-20) is also recommended for detection of Morc in additional species, including equine.

Suitable for use as control antibody for Morc siRNA (h): sc-106232, Morc shRNA Plasmid (h): sc-106232-SH and Morc shRNA (h) Lentiviral Particles: sc-106232-V.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.