

GCL (C-17): sc-27688

BACKGROUND

Germ cell-less (GCL) represses transcription during the later stages of spermatogenesis both in *Drosophila* and mammalian species. GCL localizes to the nuclear envelope, where it competes with BAF to interact with emerin, a complex that is required for appropriate gene expression. Defective sperm motility as well as impaired nuclear envelope integrity in liver, pancreas and testis cells result from a lack of GCL gene expression. Thus it appears that the essential function of GCL is to facilitate normal nuclear-lamina organization, which results in normal sperm morphogenesis and chromatin remodeling.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GMCL1 (human) mapping to 2p13.3, GMCL1P1 (human) mapping to 5q35.3.

SOURCE

GCL (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of GCL of human origin.

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-27688 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GCL (C-17) is recommended for detection of GCL and GMCL1L of 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).

GCL (C-17) is also recommended for detection of GCL and GMCL1L in additional species, including equine and porcine.

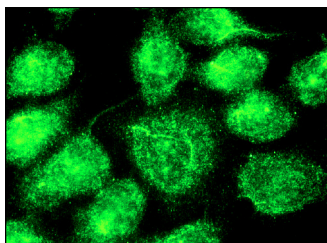
Molecular Weight of GCL: 60 kDa.

Positive Controls: Human liver extract: sc-363766 or HeLa whole cell lysate: sc-2200.

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.

DATA



GCL (C-17): sc-27688. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and nuclear localization.

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.