

# Repo-Man (T-20): sc-83163

## BACKGROUND

The eukaryotic cell division cycle consists of a number of gene-controlled sequences that involve cyclin dependent kinases (Cdks) and cell division cycle (Cdc) proteins. Repo-Man, also known as CDCA2 (cell division cycle associated 2), is a 1,024 amino acid protein that localizes to different areas within the nucleus in a phosphorylation-dependent manner. Expressed ubiquitously, Repo-Man functions to regulate mitotic chromosome structure and is specifically required to maintain compact chromosomal architecture in the absence of condensins during anaphase. Due to its ability to maintain proper chromosomal structure and function, Repo-Man plays a key role in cell cycle progression and, if upregulated, may be involved in tumor formation and metastasis. Two isoforms of Repo-Man exist due to alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CDCA2 (human) mapping to 8p21.2; Cdca2 (mouse) mapping to 14 D1.

## SOURCE

Repo-Man (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Repo-Man 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  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83163 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Repo-Man (T-20) is recommended for detection of Repo-Man 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).

Repo-Man (T-20) is also recommended for detection of Repo-Man in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Repo-Man siRNA (h): sc-76388, Repo-Man siRNA (m): sc-76389, Repo-Man shRNA Plasmid (h): sc-76388-SH, Repo-Man shRNA Plasmid (m): sc-76389-SH, Repo-Man shRNA (h) Lentiviral Particles: sc-76388-V and Repo-Man shRNA (m) Lentiviral Particles: sc-76389-V.

Molecular Weight of Repo-Man: 115 kDa.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.