

# URG4 (T-15): sc-165870

## BACKGROUND

URG4 (up-regulated gene 4), also known as URGCP (upregulator of cell proliferation) or HBV X protein up-regulated gene 4 protein, is a 931 amino acid nuclear and cytoplasmic protein that is strongly expressed in Hepatitis B virus-infected liver, hepatocellular carcinoma cells, well-differentiated gastric cancer tissues and various gastric cancer cell lines. URG4 is suggested to be involved in cell cycle progression through the regulation of cyclin D1 expression. URG4 plays a critical role in development of gastric cancer and promotes hepatocellular growth and survival. URG4 exists as three alternatively spliced isoforms and is considered a potential therapeutic target for gastric cancer. The novel gene encoding URG4 is located on human chromosome 7, which houses over 1,000 genes, comprises nearly 5% of the human genome and has been linked to osteogenesis imperfecta, Pendred syndrome, lissen-cephaly, citrullinemia and Shwachman-Diamond syndrome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: URGCP (human) mapping to 7p13; Urgcp (mouse) mapping to 11 A1.

## SOURCE

URG4 (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of URG4 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-165870 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

URG4 (T-15) is recommended for detection of URG4 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).

URG4 (T-15) is also recommended for detection of URG4 in additional species, including equine.

Suitable for use as control antibody for URG4 siRNA (h): sc-89691, URG4 siRNA (m): sc-154934, URG4 shRNA Plasmid (h): sc-89691-SH, URG4 shRNA Plasmid (m): sc-154934-SH, URG4 shRNA (h) Lentiviral Particles: sc-89691-V and URG4 shRNA (m) Lentiviral Particles: sc-154934-V.

Molecular Weight of URG4: 104 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.

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