

# HURP (H-300): sc-98724

## BACKGROUND

HURP (hepatoma upregulated protein), also known as DLGAP5 (disks large-associated protein 5), DLG7 or DLG1, is an 846 amino acid protein that localizes to both the nucleus and the cytoplasm, specifically localizing to spindle poles in mitotic cells. Expressed in testis, colon, bone marrow, placenta and fetal liver, HURP is thought to function as a cell cycle regulator that interacts with Cdc2 p34 and mediates adherens junction assembly and differentiation in epithelial cells. HURP is upregulated in the G<sub>2</sub>/M phase of the cell cycle and may play a role in carcinogenesis and tumor transformation via cell cycle control. Upon DNA damage, HURP is phosphorylated by Atm or ATR. Additionally, HURP is subject to ubiquitin-induced proteasomal degradation. Two isoforms of HURP exist due to alternative splicing events.

## REFERENCES

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2. Chiu, A.W., Huang, Y.L., Huan, S.K., Wang, Y.C., Ju, J.P., Chen, M.F. and Chou, C.K. 2002. Potential molecular marker for detecting transitional cell carcinoma. *Urology* 60: 181-185.
3. Huang, Y.L., Chiu, A.W., Huan, S.K., Wang, Y.C., Ju, J.P. and Lu, C.L. 2003. Prognostic significance of hepatoma-upregulated protein expression in patients with urinary bladder transitional cell carcinoma. *Anticancer Res.* 23: 2729-2733.
4. Sillje, H.H., Nagel, S., Körner, R. and Nigg, E.A. 2006. HURP is a Ran-Importin  $\beta$ -regulated protein that stabilizes kinetochore microtubules in the vicinity of chromosomes. *Curr. Biol.* 16: 731-742.
5. Koffa, M.D., Casanova, C.M., Santarella, R., Köcher, T., Wilm, M. and Mattaj, I.W. 2006. HURP is part of a Ran-dependent complex involved in spindle formation. *Curr. Biol.* 16: 743-754.
6. Wilde, A. 2006. "HURP on" we're off to the kinetochore! *J. Cell Biol.* 173: 829-831.

## CHROMOSOMAL LOCATION

Genetic locus: DLGAP5 (human) mapping to 14q22.3; Dlgap5 (mouse) mapping to 14 C1.

## SOURCE

HURP (H-300) is a rabbit polyclonal antibody raised against amino acids 115-288 mapping near the N-terminus of HURP of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

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

## APPLICATIONS

HURP (H-300) is recommended for detection of HURP of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

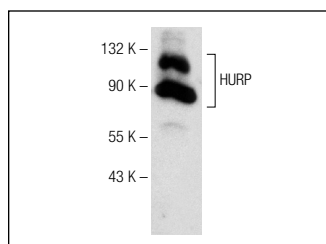
Suitable for use as control antibody for HURP siRNA (h): sc-75316, HURP siRNA (m): sc-75317, HURP shRNA Plasmid (h): sc-75316-SH, HURP shRNA Plasmid (m): sc-75317-SH, HURP shRNA (h) Lentiviral Particles: sc-75316-V and HURP shRNA (m) Lentiviral Particles: sc-75317-V.

Molecular Weight of HURP: 118 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.

## DATA



HURP (H-300): sc-98724. Western blot analysis of HURP expression in Ramos whole cell lysate.

## 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.

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Satisfaction  
Guaranteed

Try **HURP (E-7): sc-377004** or **HURP (D-12): sc-376760**, our highly recommended monoclonal alternatives to HURP (H-300).