

HURP (G-14): sc-68540

BACKGROUND

HURP (Hepatoma up-regulated 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 G₂/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

1. Bassal, S., et al. 2001. Characterization of a novel human cell-cycle-regulated homologue of *Drosophila* DLG1. *Genomics* 77: 5-7.
2. Chiu, A.W., et al. 2002. Potential molecular marker for detecting transitional cell carcinoma. *Urology* 60: 181-185.

CHROMOSOMAL LOCATION

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

SOURCE

HURP (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HURP 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-68540 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HURP (G-14) is recommended for detection of HURP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

HURP (G-14) is also recommended for detection of HURP in additional species, including bovine, porcine and avian.

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.

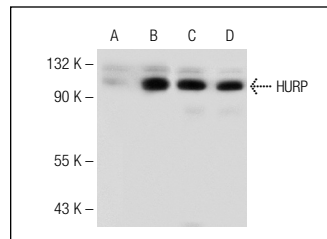
Molecular Weight of HURP: 118 kDa.

Positive Controls: HURP (h): 293T Lysate: sc-111164, MCF7 whole cell lysate: sc-2206 or Caco-2 cell lysate: sc-2262.

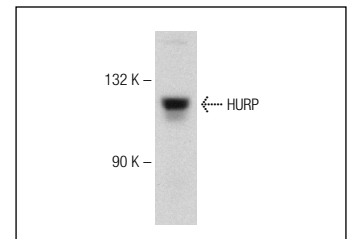
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



HURP (G-14): sc-68540. Western blot analysis of HURP expression in non-transfected 293T: sc-117752 (A), human HURP transfected 293T: sc-111164 (B), MCF7 (C) and Caco-2 (D) whole cell lysates.



HURP (G-14): sc-68540. Western blot analysis of HURP expression in K-562 nuclear extract.

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.

MONOS
Satisfaction
Guaranteed

Try **HURP (E-7): sc-377004** or **HURP (D-12): sc-376760**, our highly recommended monoclonal alternatives to HURP (G-14).