

# PPM1H (E-14): sc-169011

## BACKGROUND

PPM1H (protein phosphatase 1H), also known as URCC2 or ARHCL1, is a 514 amino acid protein that contains one PP2C-like domain and functions to catalyze the removal of phospho residues from target proteins. Belonging to the PP2C family, PPM1H can specifically dephosphorylate CAS, an event that may control the proliferation of cancer cells, suggesting an involvement for PPM1H in tumorigenesis. The gene encoding PPM1H maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: PPM1H (human) mapping to 12q14.1; Ppm1h (mouse) mapping to 10 D2.

## SOURCE

PPM1H (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PPM1H 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-169011 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PPM1H (E-14) is recommended for detection of PPM1H 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).

PPM1H (E-14) is also recommended for detection of PPM1H in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for PPM1H siRNA (h): sc-95791, PPM1H siRNA (m): sc-152414, PPM1H shRNA Plasmid (h): sc-95791-SH, PPM1H shRNA Plasmid (m): sc-152414-SH, PPM1H shRNA (h) Lentiviral Particles: sc-95791-V and PPM1H shRNA (m) Lentiviral Particles: sc-152414-V.

Molecular Weight of (predicted) PPM1H: 50 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.