

WTIP (D-12): sc-241737

BACKGROUND

Wilms' tumor (WT) is an embryonal malignancy of the kidney that affects 1 in 10,000 infants and is observed in both sporadic and inherited forms. The Wilms' tumor locus has been mapped at chromosome 11p13 as a tumor suppressor gene which encodes a DNA binding protein with four zinc fingers and a glutamine-proline rich amino-terminus. WTIP (Wilms tumor 1 interacting protein) is a 654 amino acid LIM domain protein that belongs to the zyxin/ajuba family, interacts with WT1 (Wilms tumor 1) and is thought to play a role in slit diaphragm protein assembly. Acting as a transcription regulator, WTIP shuttles between nucleus and adhesion structures following podocyte injury to repress WT1-dependent transcription regulation. WTIP contains three LIM zinc-binding domains and is encoded by a gene that maps to human chromosome 19q13.11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: WTIP (human) mapping to 19q13.11; Wtip (mouse) mapping to 7 B1.

SOURCE

WTIP (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WTIP 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 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-241737 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

WTIP (D-12) is recommended for detection of WTIP of mouse 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).

Suitable for use as control antibody for WTIP siRNA (m): sc-155365, WTIP shRNA Plasmid (m): sc-155365-SH and WTIP shRNA (m) Lentiviral Particles: sc-155365-V.

Molecular Weight of WTIP: 67 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 or our catalog for detailed protocols and support products.