

Punctin-2 (N-19): sc-68760

BACKGROUND

Punctin-2, also known as ADAMTSL3 (ADAMTS-like 3) or KIAA1233, is a 1,691 amino acid protein that localizes to the extracellular matrix and contains one PLAC domain, 3 Ig-like C2 domains and ten TSP type-1 domains. Expressed in a variety of tissues with highest expression in heart, kidney, liver and skeletal muscle, Punctin-2 is thought to play a role in cell-matrix interactions and, when mutated, may be involved in the pathogenesis of colon cancer. The gene encoding Punctin-2 maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome. Angelman syndrome, Prader-Willi syndrome, Tay-Sachs disease and Marfan syndrome are all associated with defects in chromosome 15-localized genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ADAMTSL3 (human) mapping to 15q25.2; Adamt3 (mouse) mapping to 7 D3.

SOURCE

Punctin-2 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Punctin-2 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-68760 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Punctin-2 (N-19) is recommended for detection of Punctin-2 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).

Punctin-2 (N-19) is also recommended for detection of Punctin-2 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for Punctin-2 siRNA (h): sc-76299, Punctin-2 siRNA (m): sc-76300, Punctin-2 shRNA Plasmid (h): sc-76299-SH, Punctin-2 shRNA Plasmid (m): sc-76300-SH, Punctin-2 shRNA (h) Lentiviral Particles: sc-76299-V and Punctin-2 shRNA (m) Lentiviral Particles: sc-76300-V.

Molecular Weight of Punctin-2: 189 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 or our catalog for detailed protocols and support products.