

# CD2BP2 (C-19): sc-70235

## BACKGROUND

CD2BP2 (CD2 (cytoplasmic tail) binding protein 2), also known as LIN1, Snu40, FWP010 or U5-52K, is a 341 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one GYF domain. Expressed in a variety of tissues, CD2BP2 exists as a bi-functional protein that, in the nucleus, is a component of the U5 small nuclear ribonucleoprotein complex and, in the cytoplasm, binds to the tail of the CD2 antigen. Via its multifunctional activity, CD2BP2 participates in RNA splicing and regulates CD2-triggered T-lymphocyte activation. The gene encoding CD2BP2 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CD2BP2 (human) mapping to 16p11.2; Cd2bp2 (mouse) mapping to 7 F3.

## SOURCE

CD2BP2 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CD2BP2 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-70235 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CD2BP2 (C-19) is recommended for detection of CD2BP2 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).

CD2BP2 (C-19) is also recommended for detection of CD2BP2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CD2BP2 siRNA (h): sc-72826, CD2BP2 siRNA (m): sc-72827, CD2BP2 shRNA Plasmid (h): sc-72826-SH, CD2BP2 shRNA Plasmid (m): sc-72827-SH, CD2BP2 shRNA (h) Lentiviral Particles: sc-72826-V and CD2BP2 shRNA (m) Lentiviral Particles: sc-72827-V.

Molecular Weight of CD2BP2: 52 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.