

# centlein (N-20): sc-242413

## BACKGROUND

Localized in the cytoplasm, centlein is a 1,405 centrosomal protein that localizes with  $\gamma$ -tubulin at interphase and mitosis. During G<sub>1</sub> phase, centlein is believed to associate with the mother centriole and during the G<sub>1</sub>/S phase, centlein associates with daughter centrioles. As a component of the cytoskeleton, centlein contains four coiled-coil domains and is post-translationally phosphorylated at Serine 5. Alternative splicing events create three isoforms of centlein. The gene encoding centlein maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CNTLN (human) mapping to 9p22.2.

## SOURCE

centlein (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of centlein 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  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-242413 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

centlein (N-20) is recommended for detection of centlein of 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 centlein siRNA (h): sc-92630, centlein shRNA Plasmid (h): sc-92630-SH and centlein shRNA (h) Lentiviral Particles: sc-92630-V.

Molecular Weight of centlein isoforms: 162/45 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](http://www.scbt.com) or our catalog for detailed protocols and support products.