

Cyclon (G-19): sc-82568

BACKGROUND

Cyclon, also known as CCDC86 (coiled-coil domain-containing protein 86), is a 360 amino acid nuclear protein that has been found to interact with the Hepatitis C virus protein NS5a (Hep C NS5a). The gene that encodes Cyclon maps to human chromosome 11, which is composed of 1,400 genes and makes up around 4% of human genomic DNA. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and β thalassemia are caused by HBB gene mutations. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11.

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CHROMOSOMAL LOCATION

Genetic locus: CCDC86 (human) mapping to 11q12.2; Ccdc86 (mouse) mapping to 19 A.

SOURCE

Cyclon (G-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Cyclon of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82568 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-82568 X, 200 μ g/0.1 ml.

APPLICATIONS

Cyclon (G-19) is recommended for detection of Cyclon 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).

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

Suitable for use as control antibody for Cyclon siRNA (h): sc-77067, Cyclon siRNA (m): sc-77068, Cyclon shRNA Plasmid (h): sc-77067-SH, Cyclon shRNA Plasmid (m): sc-77068-SH, Cyclon shRNA (h) Lentiviral Particles: sc-77067-V and Cyclon shRNA (m) Lentiviral Particles: sc-77068-V.

Cyclon (G-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Cyclon: 40 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.