# cyclin YL2 (D-15): sc-246388



The Power to Question

### **BACKGROUND**

Cell proliferation is controlled at specific stages of the cell cycle by distinct protein kinase complexes. These complexes consist of a catalytic subunit associating with a specific regulatory subunit to form the active kinase. The cyclins, which include cyclin A, B, C, D, E, F, G, H, I, K, L, T, Y and their related proteins, including Dbf4, comprise the regulatory subunits of these kinase complexes. The controlled activation of the kinase complexes at various intervals of the cell cycle is regulated by the availability of the cyclins to the catalytic subunit. Unlike the catalytic subunit, which is expressed continually, the expression and stability of the regulatory subunit fluctuates depending on the stage of the cell cycle, thereby regulating kinase activity. Cyclin YL2, also known as CCNYL2, is a 361 amino acid protein belonging to the cyclin family and the cyclin Y subfamily. Cyclin YL2 contains one cyclin N-terminal domain and is encoded by a gene located on human chromosome 10p15.3.

### **REFERENCES**

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# **CHROMOSOMAL LOCATION**

Genetic locus: CCNYL2 (human) mapping to 10p15.3.

#### **SOURCE**

cyclin YL2 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of cyclin YL2 of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-246388 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

cyclin YL2 (D-15) is recommended for detection of cyclin YL2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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); non cross-reactive with cyclin YL1 or cyclin YL3.

Suitable for use as control antibody for cyclin YL2 siRNA (h): sc-90634, cyclin YL2 shRNA Plasmid (h): sc-90634-SH and cyclin YL2 shRNA (h) Lentiviral Particles: sc-90634-V.

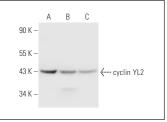
Molecular Weight of cyclin YL2: 41 kDa.

Positive Controls: MDA-MB-435S whole cell lysate: sc-364184, MDA-MB-231 cell lysate: sc-2232 or Hep G2 cell lysate: sc-2227.

### **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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

#### DATA



cyclin YL2 (D-15): sc-246388. Western blot analysis of cyclin YL2 expression in MDA-MB-435S (A), MDA-MB-231 (B) and Hep G2 (C) whole cell lysates.

# **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.

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