

Cdc123 (H-300): sc-134629

BACKGROUND

The eukaryotic cell division cycle consists of a number of gene-controlled sequences that involve cyclin dependent kinases (Cdks) and cell division control (Cdc) proteins. Cdc123 (cell division cycle protein 123), also known as D123, is a 336 amino acid cytoplasmic protein that is involved in cell cycle control. Widely expressed with high expression in thymus, spleen, ovary, testis, small intestine and leukocytes, Cdc123 functions to destabilize Chfr (checkpoint with forkhead and RING finger domain) proteins which, when accumulated, block the G to S phase transition. Cdc123 prevents the Chfr proteins from collecting in the cell, thereby allowing the cell to enter the S phase. Due to its role in cell cycle control, Cdc123 is thought to be a basal marker for luminal breast cancers.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CDC123 (human) mapping to 10p13; Cdc123 (mouse) mapping to 2 A1.

SOURCE

Cdc123 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Cdc123 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.

APPLICATIONS

Cdc123 (H-300) is recommended for detection of Cdc123 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

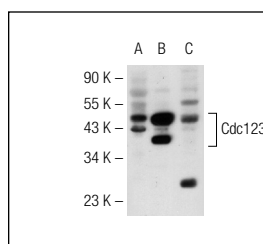
Cdc123 (H-300) is also recommended for detection of Cdc123 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Cdc123 siRNA (h): sc-90774, Cdc123 siRNA (m): sc-142205, Cdc123 shRNA Plasmid (h): sc-90774-SH, Cdc123 shRNA Plasmid (m): sc-142205-SH, Cdc123 shRNA (h) Lentiviral Particles: sc-90774-V and Cdc123 shRNA (m) Lentiviral Particles: sc-142205-V.

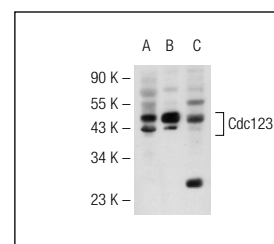
Molecular Weight of Cdc123: 39 kDa.

Positive Controls: Cdc123 (m3): 293T Lysate: sc-126610 or AML-193 whole cell lysate: sc-364182.

DATA



Cdc123 (H-300): sc-134629. Western blot analysis of Cdc123 expression in non-transfected 293T: sc-117752 (A), mouse Cdc123 transfected 293T: sc-126610 (B) and AML-193 (C) whole cell lysates.



Cdc123 (H-300): sc-134629. Western blot analysis of Cdc123 expression in non-transfected 293T: sc-117752 (A), mouse Cdc123 transfected 293T: sc-126609 (B) and AML-193 (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.



Try **Cdc123 (A-2): sc-390989** or **Cdc123 (G-10): sc-365596**, our highly recommended monoclonal alternatives to Cdc123 (H-300).