

# cadherin-7 (H-47): sc-68422

## BACKGROUND

The cadherins are a family of Ca<sup>2+</sup>-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of structure and morphogenesis. Cadherins each contain a large extracellular domain at the N-terminus, which is characterized by a series of five homologous repeats, the most distal of which is thought to be responsible for binding specificity. Cadherin-7 is a member of the atypical type II cadherin family that lacks the HAV cell recognition sequence found in type I cadherins. Although the absence of an HAV sequence decreases cell adhesion specificity, cadherin-7 contributes to cell organization by mediating homophilic cell adhesion in the brain, testis and prostate.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CDH7 (human) mapping to 18q22.1; Cdh7 (mouse) mapping to 1 E2.1.

## SOURCE

cadherin-7 (H-47) is a rabbit polyclonal antibody raised against amino acids 667-713 mapping within a cytoplasmic domain of cadherin-7 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.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

cadherin-7 (H-47) is recommended for detection of cadherin-7 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

cadherin-7 (H-47) is also recommended for detection of cadherin-7 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for cadherin-7 siRNA (h): sc-62054, cadherin-7 siRNA (m): sc-62055, cadherin-7 shRNA Plasmid (h): sc-62054-SH, cadherin-7 shRNA Plasmid (m): sc-62055-SH, cadherin-7 shRNA (h) Lentiviral Particles: sc-62054-V and cadherin-7 shRNA (m) Lentiviral Particles: sc-62055-V.

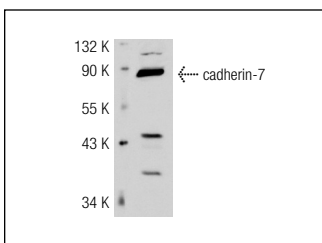
Molecular Weight of cadherin-7: 87 kDa.

Positive Controls: DU 145 cell lysate: sc-2268.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



cadherin-7 (H-47): sc-68422. Western blot analysis of cadherin-7 expression in DU 145 whole cell lysate.

## 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.