



C/EP/B-Cadherin (X-170): sc-98293

BACKGROUND

Cadherin transmembrane proteins mediate adhesion between cells, and their regulated expression during development plays a crucial role in the morphogenesis and patterning of tissues and organs. The cadherin protein superfamily, which is divided into several subgroups, including classical (type I), type II, and desmosomal cadherins, share a common domain organization of five tandem extracellular cadherin domains, a single transmembrane domain, and a highly conserved cytoplasmic domain. In *Xenopus laevis*, C-cadherin participates in the regulation of cell-upon-cell movements during gastrulation, which determines the organization of the body plan. The maternally expressed cadherins, EP- and XB-cadherin, reside in oocytes and mature eggs in *Xenopus*. They play a pivotal role in interblastomere adhesion in the early embryo. EP-cadherin also shows expression in epidermal cells in association with E-cadherin.

REFERENCES

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SOURCE

C/EP/B-Cadherin (X-170) is a rabbit polyclonal antibody raised against amino acids 551-720 mapping within an internal region of C/EP/B-Cadherin of *Xenopus laevis* 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

C/EP/B-Cadherin (X-170) is recommended for detection of C/EP/B-Cadherin of *Xenopus laevis* 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).

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.

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.