# C/EP/B-Cadherin (xC-12): sc-25939



The Power to Ouestion

#### **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 (125 kDa) also shows expression in epidermal cells in association with E-Cadherin.

#### **REFERENCES**

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- 2. Levi, G., et al. 1991. EP-Cadherin in muscles and epithelia of *Xenopus lae-vis* embryos. Development 113: 1335-1344.
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- Jarrett, O., et al. 2002. Dynamin-dependent endocytosis is necessary for convergent-extension movements in *Xenopus* animal cap explants. Int. J. Dev. Biol. 46: 467-473.
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#### **SOURCE**

C/EP/B-Cadherin (xC-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of C/EP/B-Cadherin of *Xenopus laevis* 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-25939 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **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.

#### **APPLICATIONS**

C/EP/B-Cadherin (xC-12) 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), 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 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.

#### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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