pan-cadherin (CH-19): sc-59876

**BACKGROUND**
Cadherins comprise a family of Ca\(^{2+}\)-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. The classical cadherins, E-, N- and P-cadherin, consist of large extracellular domains characterized by a series of five homologous NH\(_2\) terminal repeats. The most distal of these cadherins is thought to be responsible for binding specificity, transmembrane domains and carboxy-terminal intracellular domains. The relatively short intracellular domains interact with a variety of cytoplasmic proteins, such as β-catenin, to regulate cadherin function. Members of this family of adhesion proteins include rat cadherin K (and its human homolog, cadherin-6), R-cadherin, B-cadherin, E/P cadherin and cadherin-5. pan-cadherin includes members of the cadherin family or genetically engineered proteins containing the C-terminal cadherin tail, and adherens type cell-cell junctions regardless of their cadherin type.

**REFERENCES**

**SOURCE**
pan-cadherin (CH-19) is a mouse monoclonal antibody raised against amino acids 889-912 of cadherin of chicken origin.

**PRODUCT**
Each vial contains 250 µl ascites containing IgG\(_1\) with PBS and < 0.1% sodium azide.

**APPLICATIONS**
pan-cadherin (CH-19) is recommended for detection of all cadherins of mouse, rat, human, avian and *Xenopus laevis* origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:10-1:200), immunoprecipitation (10-20 µl per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution to be determined by researcher, dilution range 1:10-1:200), immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:10-1:200) and flow cytometry (1-2 µl per 1 x 10\(^6\) cells).

pan-cadherin (CH-19) is also recommended for detection of all cadherins in additional species, including bovine, porcine, feline and canine.

Molecular Weight of pan-cadherin: 120 kDa.

**STORAGE**
For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

**DATA**

**SELECT PRODUCT CITATIONS**

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.