

# Anti-Pan-Cadherin Antibody (Monoclonal, CH-19)

Catalog # ABO10464

## Product Information

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| <b>Application</b>       | WB, IHC-P                                                                                                                                                                                                                                                                                                                 |
| <b>Primary Accession</b> | <a href="#">F1LMI3</a>                                                                                                                                                                                                                                                                                                    |
| <b>Host</b>              | Mouse                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>           | Mouse IgG1                                                                                                                                                                                                                                                                                                                |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                         |
| <b>Clonality</b>         | Monoclonal                                                                                                                                                                                                                                                                                                                |
| <b>Format</b>            | Lyophilized                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>       | Mouse IgG monoclonal antibody for Pan-Cadherin, cadherin 1, type 1, E-cadherin (epithelial); cadherin 2, type 1, N-cadherin (neuronal); cadherin 3, type 1, P-cadherin (placental) (CDH1; CDH2; CDH3 ) detection. Tested with WB, IHC-P in Human;mouse;rat;rabbit;chicken;snake. No cross reactivity with other proteins. |
| <b>Reconstitution</b>    | Add 1ml of PBS buffer will yield a concentration of 100ug/ml.                                                                                                                                                                                                                                                             |

## Additional Information

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| <b>Calculated MW</b>            | 90415 Da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 2-4 $\mu$ g/ml, Human, mouse, rat, rabbit, chicken, snake., By Heat<br><br>Western blot, 1-2 $\mu$ g/ml, Human, mouse, rat, rabbit, chicken, snake.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Subcellular Localization</b> | CDH1: Cell junction. Cell membrane; Single-pass type I membrane protein. Endosome. Golgi apparatus, trans-Golgi network. Note: Colocalizes with DLGAP5 at sites of cell-cell contact in intestinal epithelial cells. Anchored to actin microfilaments through association with alpha-, beta- and gamma-catenin. Sequential proteolysis induced by apoptosis or calcium influx, results in translocation from sites of cell-cell contact to the cytoplasm. Colocalizes with RAB11A endosomes during its transport from the Golgi apparatus to the plasma membrane.   Cdh1: Cell junction. Cell membrane; Single-pass type I membrane protein. Endosome Golgi apparatus, trans-Golgi network Note: Colocalizes with DLGAP5 at sites of cell-cell contact in intestinal epithelial cells. Anchored to actin microfilaments through association with alpha-, beta- and gamma-catenin. Sequential proteolysis induced by apoptosis or calcium influx, results in translocation from sites of cell-cell contact to the cytoplasm. Colocalizes with RAB11A endosomes during its transport from the Golgi apparatus to the plasma membrane (By similarity).   Cdh1: Cell junction. Cell membrane; Single-pass type I membrane protein. Endosome Golgi apparatus, trans-Golgi network Note: Colocalizes with DLGAP5 at sites of cell-cell contact in intestinal epithelial cells. Anchored to actin microfilaments through association with alpha-, beta- and gamma-catenin. Sequential |

proteolysis induced by apoptosis or calcium influx, results in translocation from sites of cell-cell contact to the cytoplasm. Colocalizes with RAB11A endosomes during its transport from the Golgi apparatus to the plasma membrane (By similarity). | CDH2: Cell membrane; Single-pass type I membrane protein. | Cdh2: Cell membrane; Single-pass type I membrane protein. | Cdh2: Cell membrane | CDH3: Cell membrane; Single-pass type I membrane protein. | Cdh3: Cell membrane; Single-pass type I membrane protein.

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| <b>Tissue Specificity</b>    | CDH1: Non-neural epithelial tissues.                                                                                                                                               |
| <b>Protein Name</b>          | Cadherin-1; Cadherin-2; Cadherin-3                                                                                                                                                 |
| <b>Contents</b>              | Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN <sub>3</sub> as preservative.                                                                                   |
| <b>Clone Names</b>           | CH-19                                                                                                                                                                              |
| <b>Immunogen</b>             | Synthetic peptide corresponding to the C-terminal amino acids of chicken N-Cadherin with an extra N-terminal lysine residue (24 amino acids) coupled to KLH.                       |
| <b>Purification</b>          | Ascites                                                                                                                                                                            |
| <b>Cross Reactivity</b>      | No cross reactivity with other proteins                                                                                                                                            |
| <b>Storage</b>               | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |
| <b>Sequence Similarities</b> | Contains 5 cadherin domains.                                                                                                                                                       |

## Protein Information

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### Background

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Cadherins are calcium-dependent cell-cell adhesion molecules that mediate cell-cell binding in a homophilic manner. They play an important role in the growth and development of cells via the mechanisms of control of tissue architecture and the maintenance of tissue integrity. Cadherin expression is regulated spatially as well as temporally. Cadherins are thought to play an important role in development and maintenance of tissues through selective cell-cell adhesion activity and may be involved also in the invasion and metastasis of malignant tumors. Cadherin regulates dendritic spine morphogenesis. A cadherin gene cluster is mapped to a region of chromosome 5 subject to frequent allelic loss in carcinoma.

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