

## Anti-CDH18 Polyclonal Antibody

### Product Details

|                   |   |
|-------------------|---|
| Ig Type:          | IgG   |
| Reactivity:       | Rat (predicted: Human, Mouse, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep) |
| Molecular Weight: | Theoretical: 82 kDa.  |
| Purification:     | Protein A purified  |

### Applications

|                    |   |
|--------------------|---|
| Verified Activity: | Blank control: RSC96 (blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 30 min.<br>Isotype Control Antibody: Rabbit IgG (orange);<br>Secondary Antibody: Goat anti-rabbit IgG-FITC (white blue),<br>Dilution: 1:100 in 1 X PBS containing 0.5% BSA;<br>Primary Antibody Dilution: 1 $\mu$ l in 100 $\mu$ l 1X PBS containing 0.5% BSA (green). |
| Application:       | FCM   |
| Recommended        | FCM: 1 $\mu$ g/Test   |

### Properties

|                      |   |
|----------------------|---|
| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping:            | Shipping with blue ice.   |

### Antigen Details

|                  |   |
|------------------|---|
| Immunogen:       | KLH conjugated synthetic peptide: human CDH18 |
| Antigen Species: | Human   |
| Gene ID:         | 1016  |
| Uniprot ID:      | Q13634  |

### Research Background

The cadherins are a family of Ca<sup>2+</sup>-dependent adhesion molecules that function to mediate cell-cell binding events that are critical to the maintenance of cell structure and morphogenesis. EY-cadherin, also known as CDH18 (cadherin 18), CDH14 (cadherin 14), CDH24 or CDH14L, is a 790 amino acid single-pass type I membrane protein that contains five cadherin domains. One of several members of the cadherin superfamily, EY-cadherin functions as a type II classical cadherin that is expressed specifically in the central nervous system (CNS), where it plays a role in cell-cell binding events. Specifically, EY-cadherin is thought to be involved in axon guidance and outgrowth, as well as synaptic adhesion within the CNS. EY-cadherin contains a highly conserved C-terminal domain characteristic of all cadherins, but lacks the HAV cell adhesion sequence that is specific to type I cadherins. The gene encoding EY-cadherin is located within a region on chromosome five that is commonly deleted in carcinomas, implicating EY-cadherin as a potential tumor suppressor.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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