

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | Detects human, mouse and rat Protocadherin-17 in Western blots. In direct ELISAs, less than 5% cross-reactivity with Protocadherin-10 is observed.                                                                                                                          |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Human embryonic kidney cell line HEK293-derived recombinant human Protocadherin-17<br>Leu18-Ser705<br>Accession # O14917                                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### BACKGROUND

Protocadherin 17 (PCDH-17) is a 120-150 kDa glycoprotein, δ2-group member of the of the protocadherin subfamily, cadherin family of molecules. It is expressed on endothelium and epithelium such as stratified squamous epithelium and (likely) gastric columnar epithelium. PCDH17 is posited to act as an adhesion molecule, and appears to play a role in promoting cell cycle arrest and inhibiting migration. Mature human PCDH-17 is a type I transmembrane protein that is 1142 amino acids (aa) in length. It contains a 690 aa extracellular domain (ECD) (aa 18-707) plus a 431 aa cytoplasmic region. There are 6 cadherin domains in the ECD (aa 18-695). Two splice forms are reported that involve substitutions in the cytoplasmic region. The first possesses a 14 aa substitution, while the second shows a 25 aa substitution, both for aa 876-1159. Over aa 18-705, human PCDH-17 shares 98% aa identity with mouse PCDH-17.

#### PRODUCT SPECIFIC NOTICES

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