

MONOCLONAL ANTIBODY CADHERIN 5

Cat. No.	Form	Quantity	Presentation
1597	Purified	0.2 mg	Freeze dried

**Clone** TEA1/31

**Isotype** IgG1 mouse

**Immunogen** Human endothelial cells (HUVEC)

**Hybridoma** SP2 x Balb/c spleen cells

**Specificity** The molecular weight of the recognized antigen is 140 kDa.  
 Cadherin 5 is specific for endothelial cells and is located at the intercellular cleft sites of the junction within endothelial tissue.  
 Cadherin 5 might play a role in the permeability properties of vascular endothelium

**Applications** Immunofluorescence.  
 Immunoelectron cytochemistry  
 Immunoprecipitation.

**Buffer** Freeze-dried forms: 1 mg/ml bovine serum albumin in phosphate buffered saline.

**Reconstitution and Storage** The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquotting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C.

**Recommended Procedures** Immunofluorescence:  
 Working dilution on frozen sections: 25-50 µg/ml.  
 Incubation: 1 h at 37°C.  
Immunoelectron - cytochemistry:  
 Working dilution on ultra thin frozen sections: 25-50 µg/ml.  
 Incubation overnight in a humid chamber at 4°C.

**References** 1) Takeichi, M., "The cadherins: cell-cell adhesion molecules controlling animal morphogenesis", 1988, Development, **102**, 639-655.

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- 2) Takeichi, M., "Cadherins: a molecular family important in selective cell-cell adhesion", 1990, Annu. Rev. Biochem., **59**, 237-252.
- 3) Takeichi, M., "Cadherin cell adhesion receptors, as morphogenetic regulator", 1990, Science, **251**, 1451-1455.
- 4) Magee, A.I., Buxton, R.S., "Transmembrane molecular assemblies regulated by the greater cadherin family" 1991 Curr. Opin. Cell Biol., **3**, 854-861
- 5) Leach, L., Clark, P., Lampugnani, M-G., Arroyo, A.G., Dejana, E., Firth, J.A., "Immunoelectron characterisation of the inter-endothelial junctions of human term placenta", 1993, Journal of Cell Science, **104**, 1073-1081.