

## Anti-Human CD144 (VE-Cadherin) PE

Catalog Number :16511-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** 16B1

**Format/Conjugate:** PE

**Concentration:** 0.2 mg/mL

**Reactivity:** Human

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5

**Isotype:** Mouse IgG1

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The 16B1 monoclonal antibody specifically reacts with human CD144, the 140 kDA molecule called vascular endothelial (VE-cadherin) or cadherin 5. CD144 is an endothelial specific calcium-dependent adhesion molecule involved in cell contact-dependent growth inhibition, migration, survival, adhesion. It is concentrated at the intercellular boundaries of endothelial cells and essential in maintaining cell layer integrity.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### References

1. Breviario, F., Caveda, L., Corada, M., Martin-Padura, I., Navarro, P., Golay, J., ... Dejana, E. (1995). Functional properties of human vascular endothelial cadherin (7B4/cadherin-5), an endothelium-specific cadherin. *Arteriosclerosis, thrombosis, and vascular biology*;15(8), 1229-1239.
2. Rajesh, D., Chinnasamy, N., Mitalipov, S. M., Wolf, D. P., Slukvin, I., Thomson, J. A., Shaaban, A. F. (2007). Differential requirements for hematopoietic commitment between human and rhesus embryonic stem cells.; *Stem Cells*,25(2), 490-499.
3. Dejana, E., Bazzoni, G., Lampugnani, M. G. (1999). Vascular endothelial (VE)-cadherin: only an intercellular glue?.; *Experimental cell research*;252(1), 13-19.