

Anti-Human CD144 (VE-Cadherin) Purified

Catalog Number :16511-20

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

Product Information

Clone: 16B1

Format/Conjugate: Purified

Concentration: 0.5 mg/mL

Reactivity: Human

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

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.

Applications: FC, IHC, WB

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. Do not freeze. The monoclonal antibody was purified utilizing affinitychromatography.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

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.