**Monoclonal Antibody CD144 (VE-Cadherin)**

PN IM1597 – Purified – Freeze-dried – 0.2 mg – Clone TEA 1/31

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

**SPECIFICITY**

CD144, also called Cadherin 5 or VE-Cadherin, is a 140 kDa protein belonging to the cadherin family of cell adhesion molecules (1 – 3).

CD144 antigen is specific for endothelial cells and is located at the intercellular cleft sites of the junction within endothelial tissue (4). The cadherin 5 molecule may play a role in the permeability properties of vascular endothelium.

On frozen tissue sections, TEA1/31 stains intercellular cleft sites of the junction between endothelial cells. The TEA 1/31 monoclonal antibody has been assigned to the CD144 cluster of differentiation at the sixth International Workshop on Human Leucocyte Differentiation Antigens held in Kobe, Japan, in 1996 (5).

**APPLICATION**

Studies of CD144 positive cells by flow cytometry.

**REAGENT**

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Clone TEA 1/31
Isotype IgG1
Species Mouse
Immunogen Human endothelial cells (HUVEC)
Hybridoma SP2 x Balb/c spleen cells
Source Ascites fluid
Purification Ion exchange or affinity chromatography
Buffer 1 mg/mL bovine serum albumin in phosphate-buffered saline

**STATEMENT OF WARNINGS**

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

**STORAGE CONDITIONS AND STABILITY**

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.

No preservative has been added.

**REAGENT PREPARATION**

Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).

The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.

The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.

In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

**PROCEDURE**

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

**SELECTED RESEARCH REFERENCES**


**PRODUCT AVAILABILITY**

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

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