

## Mouse Anti-Swine CD144 Monoclonal Antibody

**Cat. No.: VD10H27**

**Product Type: Animal-targeted Antibodies**

**Size: 0.1 mg; 0.5 mg; 1 mg**

### Product Overview

O11H27 monoclonal antibody is specific for Swine CD144, also known as Swine VE-cadherin. It was purified by affinity chromatography on Protein G from tissue culture supernatant. It can be applied for Immunohistochemical (IHC) and Western Blot (WB).

### Specifications

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Application                 | IHC; WB                                        |
| Clonality                   | Monoclonal Antibody                            |
| Classification              | Primary Antibody                               |
| Clone                       | O11H27                                         |
| Host                        | Rat                                            |
| Target Species              | Swine                                          |
| Species Reactivity          | Swine                                          |
| Specificity                 | Swine CD144                                    |
| Isotype                     | IgG2a                                          |
| Immunogen                   | Swine VE-cadherin/human IgG Fc fusion protein. |
| Purification                | Protein G Purified                             |
| Purity                      | ≥ 90% (SDS-PAGE)                               |
| Concentration               | 1.0 mg/mL                                      |
| Conjugation                 | Unconjugated                                   |
| Preservative and Stabilizer | 0.09% Sodium azide (NaN <sub>3</sub> )         |
| Buffer                      | Phosphate buffered saline                      |
| Physical State              | Liquid                                         |

### Target Information

Cluster of differentiation 144 (CD144), also known as Cadherin-5 or VE-cadherin (vascular endothelial cadherin) is a type of cadherin. CD144 plays an important role in maintaining newly formed vessels. Swine CD144 has been considered to be an endothelial marker. Low expressions of VE-cadherin in the salvaged sub-healthy microvascular endothelium of infarcted and marginal areas suggest that endothelial system is impaired at reperfused acute myocardial infarction in swine.

|                |                                    |
|----------------|------------------------------------|
| Target         | Swine CD144                        |
| Target Synonym | CDH5; 7B4; VE-cadherin; cadherin 5 |
| Gene ID        | <a href="#">414737</a>             |
| UniProt ID     | <a href="#">O02840</a>             |

## Shipping and Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt (up to 12 months).

## User Note

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

## Reference

Yu, Yang, *et al.* "Derivation and characterization of endothelial cells from porcine induced pluripotent stem cells." *International Journal of Molecular Sciences* 23.13 (2022): 7029.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.