

Datasheet: MCA1746APC

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|----------------------|-------------------------|
| Description: | MOUSE ANTI PIG CD31:APC |
| Specificity: | CD31 |
| Other names: | PECAM-1 |
| Format: | APC |
| Product Type: | Monoclonal Antibody |
| Clone: | LCI-4 |
| Isotype: | IgG1 |
| Quantity: | 100 TESTS |

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ■ | | | Neat - 1/10 |

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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|---------------------------------|--|----------------------------|--------------------------|
| Target Species | Pig | | |
| Species Cross Reactivity | Reacts with: Human N.B. Antibody reactivity and working conditions may vary between species. | | |
| Product Form | Purified IgG conjugated to Allophycocyanin (APC) - lyophilised | | |
| Reconstitution | Reconstitute with 1ml distilled water | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
| | APC | 650 | 661 |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.09% Sodium Azide | | |
| Stabilisers | 1% Bovine Serum Albumin | | |
| | 5% Sucrose | | |
| Immunogen | Porcine CD31/human IgGfC fusion protein. | | |
| External Database | UniProt: | | |

Entrez Gene:[396941](#) PECAM1 [Related reagents](#)**Specificity**

Mouse anti Pig CD31, clone LCI-4 recognizes porcine CD31, also known as Platelet endothelial cell adhesion molecule (PECAM-1). CD31 is constitutively expressed by platelets, monocytes and some lymphocytes, it is expressed by endothelial cells at a level, an order of magnitude greater than that of other cell types ([Fawcett et al.1995](#)). The extracellular region contains six Ig-like domains. Clone LCI-4 is cross reactive with human CD31 and binds to the 5th extracellular Ig domain, proximal to the transmembrane region as demonstrated by human CD31 domain deletion mutant protein binding studies ([Nasu et al.1999](#)).

Mouse anti Pig CD31, clone LCI-4 immunoprecipitates a protein of ~130 kDa from lysates of porcine aortic endothelial cells and is strongly expressed at cell junctions ([Nasu et al. 1999](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood.

References

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9. Poirier, N. *et al.* (2010) Inducing CTLA-4-dependent immune regulation by selective CD28 blockade promotes regulatory T cells in organ transplantation. [Sci Transl Med. 2 \(17\): 17ra10.](#)
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|--------------------------------------|---|
| Further Reading | 1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. Vet Res. 39: 54. |
| Storage | <p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p> |
| Shelf Life | 18 months from date of reconstitution. |
| Health And Safety Information | Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf |
| Regulatory | For research purposes only |

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:APC (MCA928APC)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

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Tel: +44 (0)1865 852 700

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