

Datasheet: MCA6135APC

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|----------------------|----------------------------|
| Description: | MOUSE ANTI HUMAN CD324:APC |
| Specificity: | CD324 |
| Other names: | E-Cadherin |
| Format: | APC |
| Product Type: | Monoclonal Antibody |
| Clone: | 67A4 |
| Isotype: | IgG1 |
| Quantity: | 100 TESTS/1ml |

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 |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

| | | | |
|---------------------------------|---|----------------------------|--------------------------|
| Target Species | Human | | |
| Product Form | Purified IgG conjugated to Allophycyanin (APC) - liquid | | |
| 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 Stabilisers | <0.1% Sodium Azide (NaN ₃) 0.2% Bovine Serum Albumin | | |
| Immunogen | T-47D cells | | |

**External Database
Links**

UniProt:

[P12830](#)

[Related reagents](#)

Entrez Gene:

[999](#) CDH1

[Related reagents](#)

Synonyms

CDHE, UVO

Specificity

Mouse anti Human CD324, clone 67A4 recognizes CD324 also known as E-Cadherin, a transmembrane glycoprotein which mediates calcium dependant cell adhesion and cell junction formation.

The extracellular domain mediates a Ca²⁺ dependant homophillic interaction with a cadherin molecule on the surface of a neighboring cell. This leads to the formation of tight junctions which assist in blocking the movement of cells and facilitating cell-cell interactions ([Gloushankova et al. 2017](#)).

The cytoplasmic domain is able to interact with catenins which link the CD324 to the actin cytoskeleton which help mediate downstream signaling events growth inhibitory signals to prevent uncontrolled tissue growth during embryonic development, tissue regeneration, wound healing. Loss of CD324 expression has been associated with tumor progression and metastasis. It is thought that metastasis is more likely to occur due to the loss of a maintained stable physical link between tumor cells ([Mendonsa et al. 2018](#)).

This clone 67A4 has been used in immunocytochemistry experiments to examine the localization of CD324 on medullary epithelial cells ([Kutleša et al. 2002](#)).

Purity

>95% by SDS PAGE

Flow Cytometry

Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul

Storage

This product is shipped at ambient temperature.

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

Guarantee

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6135APC>
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:APC \(MCA928APC\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M441175:250523'

Printed on 23 May 2025

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