

## Datasheet: MCA6135PE

<b>Description:</b>	MOUSE ANTI HUMAN CD324:RPE
<b>Specificity:</b>	CD324
<b>Other names:</b>	E-Cadherin
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	67A4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> ) 0.2% Bovine Serum Albumin		
<b>Immunogen</b>	T-47D cells		

**External Database  
Links**

**UniProt:**

[P12830](#)   [Related reagents](#)

**Entrez Gene:**

[999](#) CDH1   [Related reagents](#)

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**Synonyms**

CDHE, UVO

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**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 Ca<sup>2+</sup> 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](#)).

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**Purity**

>95% by SDS PAGE

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**Flow Cytometry**

Use 10ul of the undiluted reagent to label 1x10<sup>6</sup> cells in 100ul

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**Storage**

Store at +4°C. DO NOT FREEZE.

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

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**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.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6135PE>  
10041

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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