

Datasheet: MCA6135F

Description:	MOUSE ANTI HUMAN CD324:FITC
Specificity:	CD324
Other names:	E-Cadherin
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	67A4
Isotype:	IgG1
Quantity:	100 TESTS/2ml

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
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 homophilic 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 20ul of the suggested working dilution to label 1x10⁶ cells in 100ul

Storage

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/MCA6135F>
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

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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

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