

Datasheet: MCA6124PE

Description:	MOUSE ANTI HUMAN CD164:RPE
Specificity:	CD164
Other names:	Endolyn
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	67D2
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 R. Phycoerythrin (RPE) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
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	Breast tumor cell line T-47D		

**External Database
Links**

UniProt:

[Q04900](#) [Related reagents](#)

Entrez Gene:

[8763](#) CD164 [Related reagents](#)

Specificity

Mouse anti Human CD164 clone 67D2, recognizes CD164, also known as endolyn, a 160 kDa transmembrane homodimer protein. It is composed of an extracellular region and two O-glycosylated mucin domains (I and II). These two domains are linked by a non-mucin cysteine rich subdomain.

CD164 is a member of the sialmucin family and is expressed by CD34+ hematopoietic progenitor cells, activated basophils, erythroid cells as well as various cancerous cells. A key role of CD164 is its involvement in regulating adhesion, migration and proliferation of hematopoietic progenitor cells ([Zannettino et al. 1998](#)).

Elevated expression of CD164 has been observed in patients with Seazy syndrome which is a primary cutaneous T-cell lymphoma and as such, has been suggested as a potential marker of this disease ([Guenova et al. 2016](#)).

This clone CD67D2 recognizes the class II epitope which is not sensitive to sialidase, N-glycanase and O-sialglycoprotease of CD164. This clones has been used in flow cytometry to examine CD164 upregulation in CD203c+ activated basophils ([Hennersdorf et al. 2005](#)).

Purity

>95% by SDS PAGE

Flow Cytometry

Use 10ul of the undiluted reagent to label 1×10^6 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/MCA6124PE>
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

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

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

To

America Fax: +1 919 878 3751

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

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