

## Datasheet: MCA1878APC

**BATCH NUMBER INN1605**

<b>Description:</b>	MOUSE ANTI HUMAN CD97:APC
<b>Specificity:</b>	CD97
<b>Format:</b>	APC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MEM-180
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Allophycocyanin (APC) - lyophilised		
<b>Reconstitution</b>	Reconstitute with 1ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	APC	650	661
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein</b>	IgG concentration 0.1mg/ml		

## Concentrations

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### External Database

#### Links

#### UniProt:

[P48960](#)

[Related reagents](#)

#### Entrez Gene:

[976](#)

CD97

[Related reagents](#)

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#### RRID

AB\_2244564

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#### Specificity

**Mouse anti Human CD97 antibody, clone MEM-180** recognizes the human CD97 cell surface antigen, a 74-89 kDa glycoprotein expressed by granulocytes, monocytes, some activated lymphocytes and weakly by resting lymphocytes (5-15%). Mouse anti Human CD97 antibody, clone MEM-180 has been reported to detect CD97 antigen weakly in western blotting.

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#### Flow Cytometry

Use 10ul of the suggested working dilution to label  $10^6$  cells or 100ul whole blood

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#### References

1. Steinert, M. *et al.* (2002) Expression and regulation of CD97 in colorectal carcinoma cell lines and tumor tissues. [Am J Pathol. 161 \(5\): 1657-67.](#)
2. Hamann, J. *et al.* (1998) Characterization of the CD55 (DAF)-binding site on the seven-span transmembrane receptor CD97. [Eur J Immunol. 28 \(5\): 1701-7.](#)
3. Wobus, M. *et al.* (2004) N-glycosylation of CD97 within the EGF domains is crucial for epitope accessibility in normal and malignant cells as well as CD55 ligand binding. [Int J Cancer. 112 \(5\): 815-22.](#)
4. Yona, S. *et al.* (2008) Ligation of the adhesion-GPCR EMR2 regulates human neutrophil function. [FASEB J. 22 \(3\): 741-51.](#)
5. Wobus, M. *et al.* (2015) Association of the EGF-TM7 receptor CD97 expression with FLT3-ITD in acute myeloid leukemia. [Oncotarget. 6 \(36\): 38804-15.](#)

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#### Storage

Prior to reconstitution store at +4°C.

After reconstitution store at +4°C.

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.

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#### Guarantee

12 months from date of despatch

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#### Health And Safety Information

Material Safety Datasheet documentation #20487 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1878APC>  
20487

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#### Regulatory

For research purposes only

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## Related Products

### Recommended Negative Controls

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

## Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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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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