

## Datasheet: MCA2100

**BATCH NUMBER 149634**

<b>Description:</b>	MOUSE ANTI AQUAPORIN 1
<b>Specificity:</b>	AQUAPORIN 1
<b>Other names:</b>	AQP1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	7D11
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			1/1000 - 1/10000
Immunoprecipitation			▪	
Western Blotting	▪			1/1000 - 1/2000

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.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

### Target Species

Rat

### Species Cross Reactivity

Reacts with: Mouse, Human

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide 0.1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Synthetic peptide corresponding to amino acids 198-208 of rat aquaporin 1.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P29975</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">25240</a> Aqp1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Chip28
<b>RRID</b>	AB_2056833
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with the cells of Sp-2/0 Ag14 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Aquaporin 1 antibody, clone 7D11</b> recognizes an epitope within an extracellular region of the water-specific channel aquaporin 1 (also known as AQP1 or CHIP-28)</p> <p>Aquaporin 1 is a 28kDa integral membrane protein which was originally identified in red blood cells and renal proximal tubules. AQP1 is also expressed by the choroid plexus and various other tissues. The glycosylated forms of AQP1 range between 40-60kDa in mass.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Nagy G <i>et al.</i> (2002) Development and characterisation of a monoclonal antibody family against aquaporin 1 (AQP1) and aquaporin 4 (AQP4). <a href="#">Pathol Oncol Res. 8 (2): 115-24.</a></li> <li>Bódis, B. <i>et al.</i> (2001) Active water selective channels in the stomach: investigation of aquaporins after ethanol and capsaicin treatment in rats. <a href="#">J Physiol Paris. 95 (1-6): 271-5.</a></li> <li>Felszeghy, S. <i>et al.</i> (2004) Expression of aquaporin isoforms during human and mouse tooth development. <a href="#">Arch Oral Biol. 49: 247-57.</a></li> <li>Cabral, P.D and Herrera, M. (2012) Membrane-associated aquaporin-1 facilitates osmotically driven water flux across the basolateral membrane of the thick ascending limb. <a href="#">Am J Physiol Renal Physiol. 303: F621-9.</a></li> </ol>
<b>Storage</b>	Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2100">https://www.bio-rad-antibodies.com/SDS/MCA2100</a> 10041
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

<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://www.bio-rad-antibodies.com/datasheets)  
'M366185:200529'

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