

Datasheet: MCA2100

Description:	MOUSE ANTI AQUAPORIN 1
Specificity:	AQUAPORIN 1
Other names:	AQP1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	7D11
Isotype:	IgG1
Quantity:	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.

	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.

Product Form

Purified IgG - liquid

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)
Stabilisers	1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Synthetic peptide corresponding to amino acids 198-208 of rat aquaporin 1.
External Database Links	<p>UniProt: P29975 Related reagents</p> <p>Entrez Gene: 25240 Aqp1 Related reagents</p>
Synonyms	Chip28
RRID	AB_2056833
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with the cells of Sp-2/0 Ag14 mouse myeloma cell line.
Specificity	<p>Mouse anti Aquaporin 1 antibody, clone 7D11 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>
References	<ol style="list-style-type: none"> Nagy G <i>et al.</i> (2002) Development and characterisation of a monoclonal antibody family against aquaporin 1 (AQP1) and aquaporin 4 (AQP4). Pathol Oncol Res. 8 (2): 115-24. Bódis, B. <i>et al.</i> (2001) Active water selective channels in the stomach: investigation of aquaporins after ethanol and capsaicin treatment in rats. J Physiol Paris. 95 (1-6): 271-5. Felszeghy, S. <i>et al.</i> (2004) Expression of aquaporin isoforms during human and mouse tooth development. Arch Oral Biol. 49: 247-57. 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. Am J Physiol Renal Physiol. 303: F621-9.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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)

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